9616238 BUNDLE 2-5524 LOADER MOUNTING KIT INSTRUCTIONS FOR FORD 5610, 6610 & 7610 FWD TRACTORS

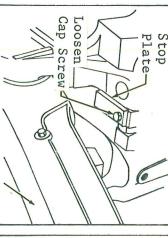
large as 14.9-24 may be used. axle visible ZFAPL335 709-1982), oscillation and depending NOTE: the adjustment for front axle tilt to $8-1/2^{\circ}$ (instructions) geometry but the The from front of Ľ° or ZFAPL345), are tractor must be on the installation of which equipped limits identifiable the can be distinguished by the Ford oval on the must be equipped with 13.6-24 or smaller front model size of front ti d with Carraro of tractor when steering straight, the the oscillation sufficiently and front 0 £ tractor when which will this mounting kit may impose restrictions by the the front axle, below). not oscillation must tires which may wheel universal front axle have Ford ovals on For the "ZF" usable (Model 709-19 als on the o be used. be set to axles, front the tires as existing (Model outer limit outer tires axle the 20

tools brakes during installation. mounting ordinarily available. brackets can be Shut off the tractor engine and engage installed on the tractor and loader tractor using

assembly and NOTE: loader mounting Unless proper alignment of mounting brackets otherwise bracket installation is complete specified, leave all attaching hardware to facilitate loose

headlight Before they are present. installing the brackets, front fenders, loader mounting iders, and front kit, first weights remove with headlights with weight brackets

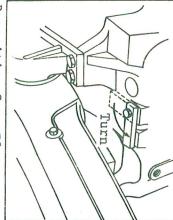
hub), axle cap position approximately parallel to the side of the tractor. If they are not, loosen the cap screws which fasten them sufficiently so the plates can swing clear of screws to tilt tractor 1'8 to necessary to $8-1/2^{\circ}$. 77 the ı, ft lbs. equipped with a locating to (104Nm). Check position axle ribs, to make then Carraro reposition stop plates sure oscillation stop plates to front axle that the stop plates (Ford oval and on tighten are limit



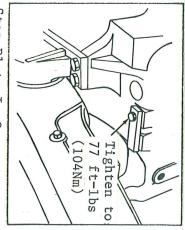
Stop Plate Position For 120 (Not compatible with

loader

mounting)



Reposition Stop Plate



Stop Plate In Correct Position (8-1/20 axle oscillation)

air conditioning lines and their support bracket. Relocate mounting pad. hydraulic three tie conditioning line below the bottom tractor hydraulic mid mount tractor has air conditioning lines with quick couplers in the small air conditioning lines above the tractor upper mid lines, straps area, (18) to secure the air conditioning coupler to the underneath the bottom hydraulic coupler. Temporarily it will be necessary to remove and relocate the largest line.

NOTE: The air conditioning quick couplers may have achieve correct hose orientation. to be loosened to

coolant from escaping. Although each air conditioning quick coupler has a check valve to prevent leakage when disconnected, they can coolant from the system before continuing. loosened, reconnect or retighten them and have your dealer pump CAUTION: If air conditioning lines or couplers leak Avoid contact with leaking coolant and use disconnected, coolant care they when

- Ν. Fasten front mounting bracket (1) to the tractor $3/4 \times 2$ cap screws (9) and lock washers (12) in the front holes, and $3/4 \times 2$ cap screws (9), lock washers (12) and flat washers (13) in side front casting using
- w. $3/4 \times 2-3/4$ cap screws (7), lock washers (12) and flat washers (13). mid mounting bracket (3), fasten bracket screws (10) and lock washers (12) in holes in lower pad. Positioning spacers (6) between tractor front casting and front-most holes of right transmission (12) and flat washers right mid mounting bracket (3) to right side casting using $3/4 \times 1-1/2$ cap screws t washers (13) for holes in upper pad, and spacers pad, and $3/4 \times 1-1/2$ cap (10), to tractor using lock of washers

NOTE: It may be necessary to trim the cover for the drive shaft for the front wheel assist to provide clearance for right mid mounting crosstie plate (4): see figure 2. bracket (3), and also for left mid mounting bracket (2)

- 4. Slide mid crosstie plate (4) into channel of right mid mounting bracket fasten one $3/4 \times 2 \cdot 1/2$ cap screw (8) with lock washer (12) through mid crosstie plate (4) and right mid mounting bracket (3) into underside of tractor transmission casting. (3) from left (3) using side of tractor and loosely fasten to right mid mounting a $3/4 \times 2$ cap screw (9) and lock nut (15).
- 5 conditioning bracket (17) to outside of front hole in upper pad with coupler lock nut. secure the air conditioning coupler screws (7), tractor at upper transmission casting pad and at tractor front casting, fasten bracket and spacers to tractor using $3/4 \times 2 \cdot 1/2$ cap screws (8), Positioning spacers (6) between left tractor has lock washers (10)lock washers (12 and flat washers (13) in front casting. If and lock washers (12) in lower pad, (12) and flat washers repositioned air outside of mid mounting bracket (2) conditioning lines, to bracket using original equipment (13) in upper pad, mid mounting bracket support away and from tractor $3/4 \times 2 - 3/4$ 3/4 fasten $\times 1 - 1/2$ (2) cap cap
- 9 a $3/4 \times 2$ cap screw (9) and lock nut (15). Fasten remaining $3/4 \times 2 \cdot 1/2$ cap screw (8) and lock washer (12) through mid crosstie plate (4) and Fasten left mid mounting bracket (2) to to mid crosstie plate a $3/4 \times 2$ cap screw (9) and lock nut (15). Fasten remaining 3, left mid mounting bracket (2) into underside of transmission casting. (4) using

INSTALLING MOUNTING BRACKETS (Continued)

7. When all mounting brackets have been installed, loader operator's manual. the torques specified in the table in the SPECIFICATIONS section of the tighten all hardware to

INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO TRACTOR VALVE)

1 Attach front support bracket 1-3/4 cap screws (11), flat washers (14) (5) to loader side frame channels with 5/8 and lock nuts (16).

place the front NOTE: Use the set of holes in support bracket (5) the loader as far rearward as side frame possible. channel which

2 Remove overhead hoist loader. and Attach a save to raise nylon bucket sling around the the loader off shipping skids. level indicator loader with attaching hardware front bumper and use from an

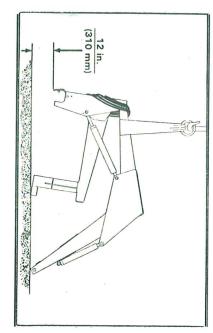


bystanders within 10 feet of loader. To avoid injury during installation, do not permit

- ω. Swing into hole in each side frame upright to block hinges hinges open as wide as possible and place 3/4open. x 3 - 1/2cap SCIEW
- 4. Lower overhead hoist. loader to a horizontal position on the ground and disconnect
- <u></u>ნ Connect the four hoses supplied with the hose kit onto boom oil lines, starting (not supplied with loader) onto free ends of hoses. with the bottom oil line tube and working .dn Install quick

viewed swivel hydraulic fluid. first Apply sealant to all tapered threads from adapters. two end) and wrap threads When using teflon 0f tapered end tape only twice, tape, to prevent wrap except when coupled keeping tape contamination of tape clockwise with from (as

6 Attach Raise side frame uprights approximately one nylon slings around both poom arms foot (310 mm) near side frame off ground. uprights.



7. Start the tractor engine, loader. Plug couplers into release tractor tractor remote hydraulic couplers. brakes and back tractor dn

INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO TRACTOR VALVE)

NOTE: When plugging couplers couplers, make sure the hoses for the #2 remote couplers (color coded green on tractors with cab). the bucket cylinders are connected to lift cylinders are connected coded blue on tractors with tractor remote hydraulic the two

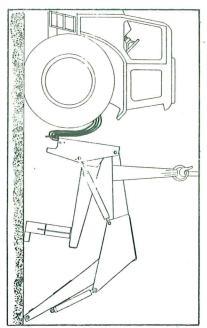


penetrate the skin causing serious injury. WARNING: Escaping hydraulic fluid under pressure can

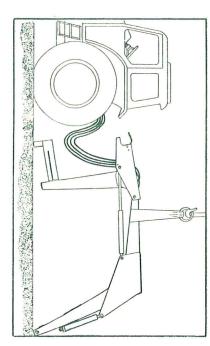
- DO NOT use cardboard or paper to search for leaks. your hand to check for leaks. Use Ф piece of
- Stop disconnecting engine and relieve pressure lines before connecting 20
- pressurizing lines. connections before starting engine or

attention immediately or gangrene may fluid injected into the result. skin, obtain medical

loader operator's operation hydraulics. IMPORTANT: Check before See REMOTE CONTROL VALVE DETENT CONVERSION section of tractor manual for instructions. connecting remote loader control quick valve for couplers proper to detent

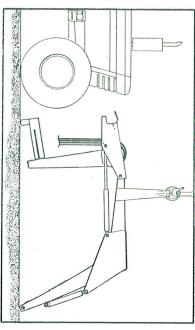


00 Activate the tractor engine valve to and engage extend lift tractor brakes cylinder to full length, then shut off



INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO TRACTOR VALVE) (continued)

9. Lower bucket the tractor remote hydraulic the loader lift control and bucket cylinders, to levers the ground back and couplers. and forth remove then several times to relieve pressure overhead hoist. disconnect quick couplers Move from



- 10. Start tractor engine Slowly drive tractor tractor. Engage engine, tractor into release brakes loader until and tractor shut hoses off brakes tractor will reach from loader and turn engine. tractor around.
- 11. Connect quick couplers between tractor and loader.
- 12. Position forward while frame rotates. tractor tractor so engine and activating lift control hinges hook mid mounting bracket tubes release tractor brakes. lever to retract Slowly drive tractor lift cylinders. as loader

loader. between On. loader tractor side models frame equipped upright and with fuel cab, tank when observe clearance mounting

- 13. shut between bracket the off channels channel. upright tractor in neutral. tractor engine. in seat front ďп properly cut-out so front support bracket tube contacts Move the mounting and front of tube). on tractor ahead so mid bracket Retract mounting the channel lift bracket tubes front Engage tractor brakes and cylinders support bracket loader front (with bringing side mounting no and
- 14. clamp Remove 3-1/2cap hinges $3/4 \times$ screws, washers around mid mounting tubes. 3-1/2cap screw and lock nuts. from hole in Fasten hinges each side frame upright shut with $3/4 \times$ and
- 15 Wrap hoses loader front support bracket. from and end of hook back onto itself. boom oil rubber line strap tubes. (supplied Position rubber strap Attach other with hose kit) end of rubber around the 1/2" about 44 inches strap to
- 16 Loosely attach hoses strap. remaining with tractor cabs, reusable step loosely 20 tie together front attach strap. cab hoses with one reusable tie strap. On mounting tractors to the with with cabs, foot remaining rest attach hoses platform reusable n 0 tractors with tie to

(continued) INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO TRACTOR VALVE)

17. After Ford 134 system bring the oil level up to full. a11 of air, then retract cylinders all plumbing has been completed, sta cycle the lift and bucket cylinders hydraulic oil as specified in your and stop engine. start tractor operator's manual, several times to the tractor Add additional engine and

control should tractor pushing it When cycling the loader, pulling raise the loader and pushing it.
Pulling bucket control lever up shing it down should dump the buckets. remote hydraulic couplers. lever is reversed, switch quick coupler connections at up should bucket. lift down roll If d control should direction back bucket lower lever the of

18. steering stops setting is 67.3 for front wheel adjustment. mounting may the be loader, inches (1710 mm). required. check The tire minimum recommended Refer clearances. to tractor operator's Adjustment front tire

AUXILIARY 1-LEVER VALVE) INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED OI OPTIONAL

× Attach 1-3/4 cap screws (11), washers front support bracket (5) to loader side frame channels (14) and lock nuts (16). with 5/8

place the front support bracket (5) as Use the set of holes in the loader side frame channel which far rearward as possible.

2. overhead hoist to raise loader off skids. Remove loader. and Attach nylon sling around save bucket level indicator the loader with front bumper and use an attaching hardware from



- w Swing hinges hole in each side frame upright to block hinges open. open as wide as possible and place 3/4 × 3-1/2cap screw
- 4. overhead hoist. loader to a horizontal position on ground and disconnect
- 5. guide tube. Begin installing auxiliary valve kit on tractor bracket with the with inside valve $1/2 \times$ surface of kit). 1-1/2of guide flat on right side carriage bolt and lock nuts Slide adjustable mounting adjustable mounting by fastening guide tube side bracket (see instructions of mid inside mounting of
- 6. handle adaptor of valve Install nut and lock washer onto and lock with nut. valve handle Install handle into

AUXILIARY 1-LEVER INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO OPTIONAL VALVE) (continued)

- 7. located for the operator. Secure a with $1/2 \times 1$ " square head set screw. and valve and valve lock nuts. Fasten valve to the valve mounting bracket with 2-1/2 cap screws bracket may be cut off. bracket Slide valve bracket into adjustable bracket and should be adjusted so the valve lever is conveniently and lock nuts. Secure adjustable bracket within guide tube et screw. Excess tube on adjustable bracket The adjustable mounting $3/8 \times 2$ " cap screws secure bracket with
- 00 ports Install 0f 7/8-7/8 valve. × 900 elbow adaptor fittings into the four working
- 9 off tractor engine. tractor forward into Start tractor engine, rear of loader loader. tractor Engage brakes tractor and brakes slowly and shut drive
- 10. Install $1/2 \times 120$ " hoses starting from the bottom and working up. lines to and tighten elbow adaptor hose fitting fittings (supplied with valve kit) connecting boom oil in onto boom the four oil working ports lines, one at of മ valve. time,
- 11. ports of valve. Install 7/8-1-1/16 elbow adaptor fittings into the inlet and outlet
- 12. supplied with loader) Install inlet and outlet 1/2-108" ports hoses to of onto elbow adaptor fittings other end of hoses valve and install male quick (10)couplers (figure 9) (not in
- 13. Route reusable tie tractor hoses over the straps. remote hydraulic tractor rear axle housing and plug couplers. Secure hoses together couplers with into



make sure from the i valve lever is WARNING: inlet When they engaged or damage to the valve could occur. port of are plugging connected valve must couplers to the be pressurized into same tractor remote outlet. remote when the tractor couplers, The line



the skin causing serious injury. WARNING: Escaping hydraulic fluid under pressure can penetrate

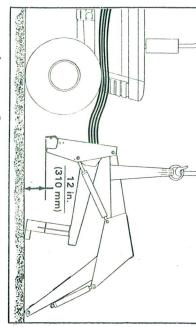
- DO NOT use your hand cardboard or paper to paper search for to check leaks for leaks. Use Ф piece of.
- disconnecting lines. engine and relieve pressure before connecting Or
- lines. Tighten all connections before Ø tarting engine or pressurizing

immediately or gangrene may any fluid 18 injected into result. the skin, obtain medical attention

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AUXILIARY 1-LEVER VALVE) (continued) INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED o OPTIONAL

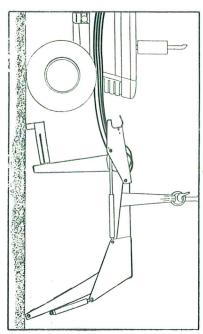
14. Attach Raise side frame uprights approximately nylon slings around both boom one arms foot (310 mm) off ground. uprights.



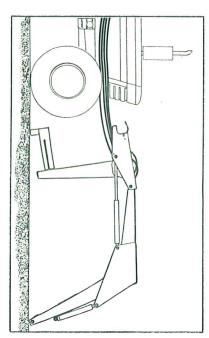
15. Start Start tractor engine, restend lift cylinders to release tract to full length. tractor brakes and activate valve to

in hydraulic hoses. IMPORTANT: As lift need to AS be cylinders moved backward extend and side frames and forward to ma to maintain slack rotate, the

Shut off tractor engine and engage tractor brakes



16. Lower loader to the ground and remove overhead hoist.



AUXILIARY INSTALLING 1-LEVER VALVE)(continued) LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED or. OPTIONAL

17. Start side frame rotates. Position while tractor engine and release tractor brakes. tractor so activating lift hinges hook mid control lever mounting to bracket retract Slowly drive tractor tubes lift cylinders. as loader

between 0n loader tractor models side frame equipped upright and fuel with cab, tank observe when clearance mounting

- 18. frame engages shut off between upright cut-out and front of tube). bracket channel. the channels tractor tractor in seat front ďп properly in neutral. engine. so front Move the tractor ahead so front support bracket mounting on support bracket tube contacts mid Retract the bracket channel and mounting lift cylinders, bracket Engage l loader tubes (tractor brakes front mounting (with no bringing side frame tube and
- 19. clamp 3-1/2 Remove cap hinges around mid mounting tubes. $3/4 \times 3-1/2$ screws, washers and lock nuts. cap screw from hole in Fasten hinges shut each side frame upright with $3/4 \times$ and
- 20. Wrap one support bracket. rubber strap. end of Attach rubber the strap other around the end of. 1/2" hoses and rubber strap to hook back loader front onto
- lever there tractor to hold it in the 18 മ valve must continuous be detent position. oil engaged flow to and the placed auxiliary valve. in the detent position so Tie or wire
- 22. Apply center 6" 1-lever control valve decal on rear side of right loader upright, from top.
- 23 Ford 134 hydraulic oil as specified in your tractor operator's manual, slowly to bring system a11 of air, then retract cylinders and stop engine. cycle the the oil level up to the full mark. plumbing lift has and been bucket cylinders several times completed, start the tractor Add additional to engine free and the

should consult TROUBLESHOOTING, direction cylinders HYDRAULICS sections boom and raise and When leveling bucket or otherwise fails of and pushing it down should extend bucket cylinders. Pulling valve working ports. control PLUMBING cycling bucket loader of loader operator's manual. lever is reversed, switch hose connections the OPTIONAL AUXILIARY 1-LEVER VALVE control lever up and loader, pushing it SELF-LEVELING pulling loader stalls down lift should retract bucket to operate correctly, VALVE should lower control AND while PLUMBING raising at

24. manual steering stops setting is for front wheel adjustment. mounting may the 67.3 be loader, inches (1710 mm). required. check The tire minimum recommended clearances. Refer to tractor operator's Adjustment

PARTS LIST

18 19	17	16	15	14	13	12	11	10	9	8	7	6		U	4	ω	2	1	Item
8137-6 39240	39522	G9414075	G9414076	G131016	G131017	G131046	G271548	G271767	G271771	G271773	G271774	35685-5	39240	38029	37212	38011	38012	38024	Part No.
STRAP, Plastic Tie Decal, Warning	BRACKET, Air Conditioning Quick Coupler	NUT, Lock, 5/8-11	NUT, Lock, 3/4-10	WASHER, Flat, 5/8	WASHER, Flat, 3/4	WASHER, Lock, 3/4	SCREW, Cap, 5/8-11 x 1-3/4	SCREW, Cap, $3/4-10 \times 1-1/2$	SCREW, Cap, $3/4-10 \times 2$	SCREW, Cap, 3/4-10 x 2-1/2	SCREW, Cap, $3/4-10 \times 2-3/4$	SPACER, Mid Mounting	DECAL, Warning: Do Not Use For Towing	BRACKET, Front Support	PLATE, Mid Crosstie	BRACKET, Mid Mounting, Right	BRACKET, Mid Mounting, Left	BRACKET, Front Mounting	Description
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