

Exclusive Manufacturer of JICase Outdoor Power Equipment

SERVICE BULLETIN

May 3, 1985 # 85-1

DIRECTED TO: All Ingersoll/Case Lawn & Garden Tractor Dealers

ATTENTION: Dealer Principal, Service Manager, Parts Manager

SUBJECT: Traction Drive System: Model 108, 110, 116 Lawn Tractors

ACTION TO BE TAKEN:

Check all affected 108, 110, and 116 tractors during predelivery inspection or during regular service for:

- 1. Main drive belt to cotter pin clearance during declutching and clutch engaging process.
- 2. Proper clutching and shifting characteristics.

PURPOSE:

- 1. To insure proper belt life by preventing contact between the main drive belt and cotter pin (5) as described in "1" above.
- 2. To insure that proper clutching and shifting characteristics are maintained.
- 3. To relocate backside idler pulley (15) if necessary to achieve 1 and 2 above.

MACHINES INVOLVED:

All Model 108, 110, 116 tractors with 5 speed transmissions prior to the following Product Identification Numbers.

MODEL	PRIOR TO P.I.N.
108	14065326
110	14066062
116	14066856

Except for those listed below which have been changed at the Ingersoll factory.

108		110		wall has		116	
14050519 14050520 14050546 14050547 14050563	14066036 14066037 14066038 14066039 14066041 14066042	14066043 14066044 14066045 14066049 14066051 14066053	14066054 14066056 14066057 14066058 14066059 14066060		14052164 14052165 14052166 14052176 14052177 14052178 14052184	14052243 14052244 14052265 14052332 14052333 14052334 14052338	14052343 14052344 14052361 14052364 14052385 14052388

PARTS INFORMATION:

No new parts are required.

INSTALLATION INSTRUCTIONS:

- 1. Remove the mower deck if installed
- 2. Remove backside idler pulley (15) and bolt (17).
 - a. Loosen the two left hand engine mounting bolts.
 - b. Remove the two right hand engine mounting bolts.
 - c. Remove nut (18) and pulley (15).
 - d. Tilt the engine and remove bolt (17).
 - e. Replace and retighten the engine mounting bolts.
- 3. Apply the template provided with these instructions to the front pulley support bracket.
- 4. Center punch and drill a new 13/32" dia. hole where indicated on the template.
- 5. Install pulley (15) with bolt (17) in the new hole. INSERT THE BOLT FROM THE BOTTOM UP.
- 6. Install the belt. Check for proper clutching action and traction. Adjust the belt, by moving the rear idler pulley, if required, as described in the operator's manual.

ACCOUNTING:

Normal warranty will apply.

Labor: Up to 0.5 hours per machine.

At your registered shop rate.

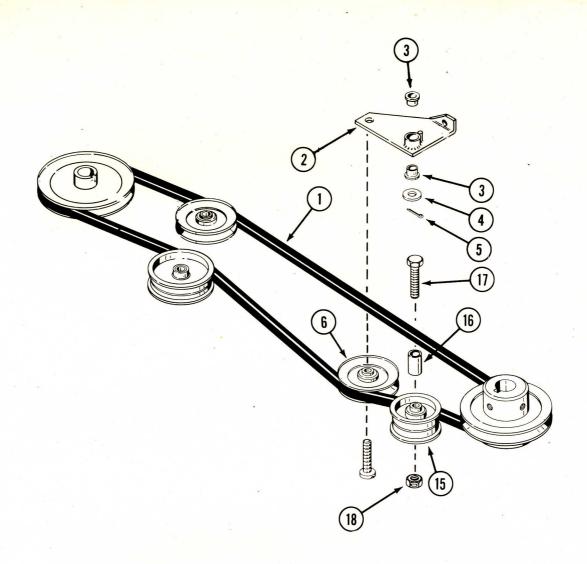
REIMBURSEMENT:

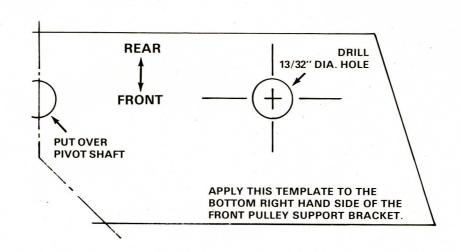
The cost of labor can be recovered by submitting a Service Adjustment Request.

- 1. Use Prime Part: C21622.
- 2. Use Service Code: 275.
- 3. Use Job Code: 61351C 0.5 hours.

Enter the following in the dealer comment section:

"Per Ingersoll Service Bulletin 85-1"





INGERSOLL Ingersoll Equipment Co., Inc.

Exclusive Manufacturer of JICase Outdoor Power Equipment

SERVICE BULLETIN

DIRECTED TO:

ALL INGERSOLL/CASE LAWN & GARDEN TRACTOR DEALERS

ATTENTION:

DEALER PRINCIPAL SERVICE MANAGER PARTS MANAGER

SUBJECT:

Vapor Lock Symptoms - Models 226, 446, 448 with Onan Engines

ACTION TO BE TAKEN

- 1. Insure that the engine stalling symptom is fuel related. A "quick check" would be to close the choke as the engine stalls. If the engine recovers momentarily, the symptom is confirmed to be fuel related.
- 2. Insure that the fuel line connection at the fuel pump inlet is tight.
- 3. Insure that there is free flowing fuel available at the fuel pump inlet. (This will eliminate a kinked or blocked fuel line, blocked fuel strainer and plugged fuel cap vent).
- 4. Insure that the vacuum line to the fuel pump is securely connected and that the vent hole in the fuel pump cover is open.
- 5. Insure that the fuel pump is correctly assembled.
- 6. Insure that there are no leaks in the intake manifold.

The purpose of the Modification Kit, Part Number C28031, is to:

- a. Assure proper fuel level in the carburetor float bowl by turning over the float helper spring in the carburetor.
- b. Reduce heat at the carburetor by installing 2 baffle extensions on the rear cylinder baffles.
- c. Keep the fuel supply cooler by installing insulation on the fuel line.

MACHINES INVOLVED

All inventory units within the following P.I.N. ranges. All retail units within warranty which display a vapor lock symptom within the following P.I.N. ranges.

226 Prior to P.I.N. 14058175

446 P.I.N. 14060239 through P.I.N. 14060930

448 P.I.N. 14062249 through P.I.N. 14062726

Issued By
INGERSOLL EQUIPMENT
SERVICE DEPARTMENT

Date Issued Bulletin No 84-1 10/1/84 Supersedes

Binder: Tab:

File Under Master Service Man.

: Bulletins

MACHINES INVOLVED (CONTINUED)

Also any inventory 226, 446, and 448 tractors which have been fitted with the P/N C27506 brass float kit or which display a vapor lock symptom.

PARTS INFORMATION

Part Number C28031 kit is available at no charge from Ingersoll Equipment Co., Inc., or your Ingersoll Field Service Representative. The required number of kits P/N C28031 will be provided upon receipt of dealer's order or request.

INSTALLATION INSTRUCTIONS

A copy of the installation instructions is attached.

ACCOUNTING

Labor: Up to 0.6 hours per machine in dealer inventory

Up to 1.6 hours per machine if delivered at retail

At your registered shop rate

REIMBURSEMENT

The cost of labor can be recovered by submitting a Service Adjustment Request. See attached samples.

- 1. Use Account <u>7491</u> if sold at retail.
 - Use Account 7479 if in dealer inventory.
- 2. Use Prime Part C27506.
- 3. Use Service Code 275.
- 4. Use Machine Location 38237.
- 5. Use Job Code 38237C.
- 6. In Remarks Section Enter: "Kit, P/N C28031 installed per instructions issued in Ingersoll Service Bulletin No. 84-1".

NOTE: Do not enter any other warranty requests on this Service Adjustment Request.

Attachment

INGERSOLL EQUIPMENT CO., INC. SERVICE DEPARTMENT

The purpose of this modification kit is to:

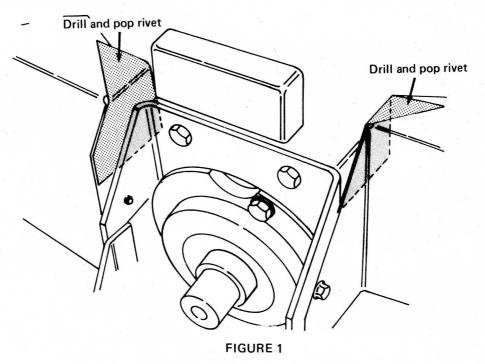
- a. Raise the fuel level in the carburetor float bowl by turning over the float helper spring in the carburetor.
- b. Reduce heat at the carburetor by installing 2 baffle extensions on the rear cylinder baffles.
- c. Keep the fuel supply cooler by installing insulation on the fuel line.

USE THE FOLLOWING PROCEDURE:

1. Remove the air cleaner assembly.

IMPORTANT: Close the choke plate to prevent accidentally dropped screws or dirt from falling into the intake manifold.

- 2. Loosen (Do Not remove) the screws which secure the rear cylinder baffles to the pump mounting bracket.
- 3. Slip the rear cylinder baffle extensions in position. Make certain the corners are closed off. See Figure 1. Tighten the screws.
- 4. Drill through the rear cylinder baffles and baffle extensions and poprivet together.



- 5. Make a wire to pull the fuel line through the insulation. Select a piece of heavy machanics wire 30" long and form 3 loops of a coil 1/2" diameter.
- 6. Remove the fuel line from the fuel pump inlet. Move the fuel line end to the right side of the carburetor.
- 7. Insert the tip of the fuel line into the 3 loops of the wire and insure that they grip.

8. Insert the wire up into the insulation and pull the fuel line through. Allow 2" of the fuel line to protrude from the insulation.

It is necessary to free the insulating sleeve from any "hang ups" or restrictions at the base of the instrument tower area in order to achieve 2" of fuel line protrusion at the top end.

- 9. Connect the fuel line to the fuel pump inlet.

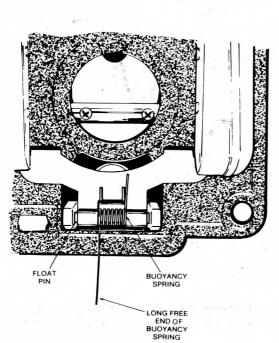
 Make sure the fuel line and clamp are secure on the fuel pump inlet.
- 10. Remove the carburetor upper body and lay it upside down on a clean work area.
- 11. Remove the hinge pin and helper spring.
- 12. Reinstall the helper spring with the long free end pointing away from the float and on the side closest to the fuel inlet passage. See Figure 2.

Correctly reinstalled, the helper spring will be "unwinding" as the float sinks.

- 13. Set the float level at 1/8" with the gasket installed.
- 14. Assemble the upper carburetor body to the lower body insuring that the long free end of the helper spring is inserted inside the lower body. See Figure 3.
- 15. Tighten the carburetor screws to a torque of 25 inch pounds.

IMPORTANT: Close the choke plate to prevent accidentally dropped screws or dirt from falling into the intake manifold.

16. Install air cleaner assembly. Insure that the choke cable is installed correctly.





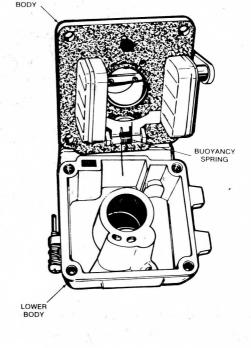


FIGURE 3



SERVICE BULLETIN

Agricultural Equipment Division

DIRECTED TO: ALL AGRICULTURAL DEALERS

ATTENTION: Dealer Principal

Service Manager Parts Manager

SUBJECT:

STEERING SHAFT -- 100, 200, 400 SERIES COMPACT TRACTORS

ACTION TO BE TAKEN:

A. For 100 Series Tractors: Replace P/N C26633 Steering Shaft with P/N C26328

Steering Shaft

B. For 200 - 400 Series

Tractors:

Replace P/N C26632 Steering Shaft with P/N C26326

Steering Shaft.

Replace steering shafts on affected tractors in accordance with the modification program follow-up report to be mailed individually to each affected dealer.

MACHINES INVOLVED:

See attached listing of models and Product Identification Numbers.

PARTS INFORMATION:

The steering shafts necessary to complete this modification program will be shipped automatically to the dealer on record where affected units are located. Do not order parts!

If a unit has transferred from your dealership to another dealer, or is no longer in your area of responsibility, please contact your field service representative. He will request your assistance with the transfer of steering shafts to the responsible dealer.

PARTS TERMS:

Shipped freight prepaid. 90 day terms. Normal stock order discount to apply. Net cost applied to dealer stock order volume.

Issued By	Date Issued	Bulletin No.	File Under:
Parts, Service & Training Agricultural Equipment Division	5/22/84	A38-84 Supersedes	SERVICE INFORMATION Tab: Compact Tractors



JI Case A Tenneco Company Form 3191 Rev. 1 Printed in U.S.A. Ag Service Bulletin Steering Shaft, Compact Tractors Page 2

PARTS DISPOSITION:

The replaced steering shafts must be inspected by your field service representative and rendered unuseable.

INSTALLATION INSTRUCTIONS:

A copy of the Installation Instructions for Modification Program "MEAE" is attached.

ACCOUNTING:

Labor:

- A. For 100 Series Tractors: Up to 0.3 hours per machine in dealer inventory and 1.3 hours per machine if delivered at retail, at your registered shop rate.
- B. For 200-400 Series
 Tractors:

 Up to 0.5 hours per machine in dealer inventory and 1.5 hours per machine if delivered at retail, at your registered shop rate.

Reimbursement:

The cost of parts and labor can be recovered by submitting a Service Adjustment Request.

- 1. Use Account Number 7492.
- 2. Use Modification Program Number (CODE) "MEAE".
- 3. Use PRIME PART:
 a. For 100 Series Tractors P/N C26633.
 b. For 200-400 Series Tractors P/N C26632.
- 4. Use Service Code 275.
- 5. Use Machine Location Code 50110.
- 6. Use Job Code:
 - a. For 100 Series Tractors in dealer stock: 50110BM 0.3.
 - b. For 100 Series Tractors already delivered at retail: 50110BM 1.3.
 - c. For 200-400 Series Tractors in dealer stock: 50110BM 0.5.
 - d. For 200-400 Series Tractors already delivered at retail: 50110BM 1.5.
- 7. Parts Replaced:
 - a. For 100 Series Tractors list: C26328 Shaft Net \$7.74.
 - b. For 200-400 Series Tractors list: C26326 Shaft Net \$8.28.
 - Note: You will be invoiced at the prices listed above. These prices are different from the prices shown in your March 5th Price List Bulletin.
- 8. Deadline Date:
 All steering shafts must be changed and SAR's submitted by September 30, 1984.

STEERING SHAFT INSTALLATION INSTRUCTIONS

The steering shafts can be changed with the tractor either in or out of the crate. It is recommended that the tractors be left in the crate when this is to your advantage. Disregard references to the crate in these instructions if you are changing the shaft on a tractor that is already set up.

Note: The words "Right", "Left", "Front" and "Rear" as used in these instructions indicate directions when you are in the operator's seat in the normal operating position.

FOR ALL MODELS:

1. Identify the front end of the crate (tractor).

2. Use a suitable lifting device to raise the front of the crate 34". Securely block the front of the crate in the raised position. This height will allow the steering shaft to pass through the bottom of the crate.

3. If the tractor is set up, remove the steering wheel and raise the front of the tractor. Securely block the rear wheels and under the front of the tractor.

FOR MODELS 108, 110, 116:

- 1. Cut a small hole in the top of the carton to permit access to the steering area.
- 2. Remove the cotter pin from the roll pin hole in the top of the steering shaft.
- 3. Pull the steering shaft down and remove it from the tractor.
- 4. Transfer the washer and bushing from the old shaft to the new shaft.
- 5. Insert the new shaft from the bottom. Make sure that the gear teeth mesh and that the top bushing remains in place.
- 6. Insert the cotter pin into the roll pin hole.
- 7. Staple the top of the carton closed.

FOR MODEL 210 THROUGH 448:

- 1. Cut a small hole in the top of the carton to permit access to the steering area.
- 2. Remove the inspection tags from the roll pin hole in the top of the steering shaft.
- 3. Cut a 12" square window in the lower left (right for Model 210 only) side of the carton just to the rear of the center wooden slat. This is necessary to gain access to the foot rest.
- 4. Remove the bolts that secure the left foot rest (right foot rest for Model 210 only).
- 5. Remove the bolts that secure the saddle clamps for the attachment lift rockshaft.
- 6. Cut the band for the drag link (also tie rod on Model 210 only) and move them out of the way.
- 7. Carefully pry the attachment lift rockshaft down and forward to permit the steering shaft to pass and remove the old steering shaft.
- 3. Transfer the two washers from the old steering shaft to the new steering shaft.
- 9. Insert the new shaft from the bottom. Make sure the top bushing remains in place.
- 10. Reinstall the rockshaft and foot rest. Make sure the steering gear teeth mesh properly.
- 11. Resecure the tie rod and drag link.
- 12. Staple the carton closed.

100 SERIES AFFECTED TRACTOR P.I.N.'S FOR STEERING SHAFT MODIFICATION PROGRAM - MEAE - P/N C26328

108				116			
			1.4071006	Start -	14047523	thru	14047884
Start -	14031949	thru	14031986		14047887	thru	14047891
plus	14031988	thru	14031989	plus	14047895	thru	14047898
- -	14031992						14047906
	14031995	thru	14031999		14047902	thru	
	14032002	thru	14032004		14052096	thru	14052100
	14050423				14052103	thru	14052104
	14050428	thru	14050430		14052106	thru	14052125
	14050423	thru	14050448		14052127		
	14030441	CITT			14052133	thru	14052135
					14052138		
					14052142	thru	14052144
					14052147	thru	14052150
					14052152	thru	14052154
110					14052161	thru	14052163
			14072040		14052183		
Start -		thru	14032940		14052191		
plus	14032942	thru	14032944		14052195		
	14032946	thru	14032969		14032133		
	14032971	thru	14032990				
	14051150	thru	14051155				
	14051157						
	14051182						
	14051184						

210

Start -	14033980	thru	14034034
plus	14034036	thru	14034042
1	14034044		
	14034046	thru	14034052
	14034054	thru	14034058
	14034060	thru	14034071
	14034075	thru	14034077
	14034079		
	14034082	thru	14034084
	14034086		
	14034088	thru	14034089
	14053458		
	14053475	thru	14053476

220				224			
220				Start -	14038316	thru	14038395
Start -	14035015	thru	14035063	plus	14038397	thru	14038406
plus	14035065	thru	14035097	prus	14038408	thru	14038455
I	14035099	thru	14035108		14038457	cmra	14030433
	14035110	thru	14035100		14038461	thru	14038472
	14035118	thru	14035111		14038475	tillu	1403047,2
	14035113	tillu	14033119			4 h	14079490
	14035125	+ h	14075142		14038477	thru	14038480
		thru	14035142		14038485	thru	14038486
	14035144	thru	14035161		14038494		
	14035164	thru	14035166		14038498	thru	14038499
	14035168				14038501	thru	14038502
	14035171	thru	14035172		14038504	thru	14038506
	14035174				14038508		
	14035176				14038510		
	14035178	thru	14035181		14038514		
	14035184				14038516	thru	14038520
	14035186	thru	14035197		14038522	thru	14038523
	14035212	thru	14035213		14038527	thru	14038529
	14035215	thru	14035216		14038531	thru	14038532
	14035218				14038542	thru	14038554
	14035220	thru	14035221		14056522	thru	14056526
	14035227	thru	14035230		14056528	thru	14056531
	14035232	thru	14035236		14056534	thru	14056535
	14035239	V2 G	11000100		14056537	thru	14056539
	14035245				14056541	cma	14030333
2	14035250	thru	14035252		14056549	thru	14056561
	14054306	thru	14054310		14056583	cmu	14030303
	14054323	thru	14054318		14030303		
	14054330	thru	14054335				
	14054337		14054338				
	14054337	thru	14054556				
	14054343 14054345			226			
	14054545						
					14048511	thru	14048956
				plus	14048960	thru	14048961
					14048963		
					14048970	thru	14048975
					14048984	thru	14048986
222					14048990		
222					14048994	thru	14048999
C	140744	4 +1	1407/02/		14049000		
Start			14036826		14049004		
plus					14049008	thru	14049035
	14036832				14049038	thru	1404905
	1403683				14049058	thru	1404906
	14036892		14036895		14049038	thru	1405774
	1403689					thru	1405775
	1403690				14057751		1405775
	1405550	8 thru	14055514		14057757	thru	1405//5
	1405551	8 thru	14055519		14057761	41	1405777
	1405552	l thru	14055527		14057766	thru	1405777
	1405553				14057772	thru	1405777
	1405553				14057779		
	1.00000				14057783	thru	1405779
					14057795	thru	1405779
					14057800	thru	1405780
1					14057803	thru	1405780
					14057807		

400 SERIES AFFECTED TRACTOR P.I.N.'S FOR STEFRING SHAFT MODIFICATION PROGRAM - MEAE - P/N C26326

444					448				
Stant	14039760	thru	14039834		a .	ru lebraé di			
plus	14039700	thru	14039930			14044260	thru	14044618	
prus	14039037	CHIU	14033330		plus	14044621			
	14039930	thru	14039966			14044623			
	14058937	tiii u	14039300			14044626	thru	14044641	
	14058940					14044643	thru	14044644	
	14058947	thru	14058960			14044646	thru	14044647	
	14058962	thru	14058966			14044650	thru	14044652	
	14058968	thru	14058969			14044658	thru	14044667	
	14058974	thru	14058976			14044670	thru	14044685	
						14044687	thru	14044689	
	14058985	thru	14058986			14044698	thru	14044704	
	14058989					14044707	thru	14044709	
						14044711	thru	14044714	
						14044719	thru	14044720	
442						14044722	thru	14044749	
446						14044751			
	11011505		1.10.1000.7			14044755	thru	14044763	
Start -	14041727	thru	14042093			14062146	thru	14062164	
plus	14042096	thru	14042098			14062166	thru	14062167	
	14042100	2				14062169	thru	14062171	
	14042102	thru	14042111			14062173	thru	14062224	
	14042114					14062226			
	14042116	thru	14042121			14062236			
	14042124	thru	14042132			14062242	thru	14062244	
	14042135	thru	14042137			14062252			
	14042140					14062255	thru	14062256	
	14042146	thru	14042150			14062258	thru	14062261	
	14042152								
	14042154	thru	14042161						
	14042163	thru	14042170						
	14042173	thru	14042179						
	14042191	thru	14042196						
1 - 1 - 1	14042200	thru	14042212						
	14042214	thru	14042215						
	14042220	thru	14042226						
i sate	14042228								
	14042230	thru	14042233						
	14042236	thru	14042239						
	14042244								
	14060086	thru	14060090						
	14060092	thru	14060186						
	14060192								
	14060194	thru	14060195			a describ			
	14060198	thru	14060199						
	14060206	size costs TO NO							
	14060224								
	14060227	thru	14060229						
	14060234	thru	14060237						
	4 4 7 7 7 7 7 7 7 7								



INDICATE APPROPRIATE DIVISION FOR MAILING FACTORY USE ONLY

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				PRODUC	T LO.		CITY		STAT	TE COL	INTRY	MOD PROG	RAM NUM	MBER
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A	R E P YE	S				JOB CO	DE	JOB CODE	JOB CODE	JOB CODE		NEW PAR	RT S/N	
	ACED	C26632		ERVICE CODE 275	MACHINE LOCATION 50110	HOURS 0.5**		HOURS	HOURS	HOURS	TOTAL HOURS	REMOVED	PART S/N	HRS. on PART
В	R E P YE	S				108 00	DE	JOB CODE	JOB CODE	JOB CODE		NEW PAR	RT S/N	
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С	R E P YE L	S			98	108 00	DE	JOB CODE	JOB CODE	JOB CODE		NEW_PAR	RT S/N	
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SAMPLE FOR 200-400 SERIES TRACTOR

- * Use customer's name if sold at retail
- ** Use 1.5 if sold at retail

			DEALER SIG	GNATURE	John Doe	5 / 1 / 84 MONTH DAY YEAR
PRIME	Q T Y	PART NUMBER INSTALLED	DESCRIPTION	NET	TOTAL	TOTAL PARTS EXPENSE REQUESTED
A	1	C26326		8.28	8.28	TOTAL PARTS EXPENSE APPROVED
i,		10 m	V			HANDLING ALLOWANCE OR SWA
7 -		-				FREIGHT
- \			office of the state of the stat	-		OUTSIDE LABOR AND MATERIAL B
		-	_		2 . 9	C TOTAL APPROVED SERVICE EXP.
						HOURS SERVICE RATE REQUESTED
					-	TOTAL OTHER EXPENSE REQUESTED
						TOTAL OTHER EXPENSE APPROVED
				-		TAX OR MISC.
						PARTS ICA % TOTAL ICA ×
						☐ APPROVED ☐ DISAPPROVED ☐ SUSPENDED ☐ CODE
						RETURN AUTHORIZATION
PARTS OTHER	PAG	BES	PARTS EX THIS PAG			AUTHORIZED SIGNATURE / / / MONTH DAY YEAR



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FACTORY USE ONLY

FORM 2951 REV. 3/82

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DIVISION — SERVICE



SERVICE BULLETIN

Agricultural Equipment Division

ALL COMPACT TRACTOR DEALERS

ATTENTION:

DEALER PRINCIPAL SERVICE MANAGER

PARTS MANAGER

SUBJECT:

MODEL 80 RER MOWER BLADE BOLT

This Bulletin Supersedes Ag Service Bulletin A71-83.

Several reports from the field have been received indicating that the mower blade bolt has loosened or broken.

The cause for the bolt loosening and/or breaking has been attributed to the spindle bearing spacer (C24916) deforming and not providing the required compression load for the blade bolt. A thicker wall spacer is used effective with Model 80 RER PIN 14030722. The new spacer C24916 (same part number) has an OD of 1" (25.4mm). The old spacer's OD was 7/8" (22.2mm). SPS stock has been purged and any recently ordered spacers will be the new style.

Replace the spacer on all Model 80 RER mowers beginning with PIN 9759168 and prior to PIN 14030722 when the blade becomes loose, the unit is in for service, or when setting up and pre-delivering a new unit.

LABOR ALLOWANCE

One (1.0) hour will be allowed at the current registered dealer rate.

REIMBURSEMENT

Dealers can recover the cost of the spacer (C24916), 10% handling, and one hour labor by submitting a Service Adjustment Request indicating work done per Service Bulletin No. A71-83. Any additional parts worn and replaced due to normal use are not to be submitted for reimbursement.

Enter: Account Number 7479 for units in dealer inventory.

Account Number 7491 for units in retail and within regular warranty coverage. Account Number 7493 for retailed units out of regular warranty coverage.

A sample Service Adjustment Request is attached. Please note the proper job code and prime part numbers.

Issued By

Agricultural Equipment Division

Date Issued 12/22/83

Bulletin No. A72-83

Binder:

File Under:

Parts Service & Training

Supersedes A71-83

Tab:

SERVICE INFORMATION COMPACT TRACTORS

TENNECO

J I Case A Tenneco Company Form 3191 Rev. 1 Printed in U.S.A.



SERVICE BULLETIN

Agricultural Equipment Division

DIRECTED TO:

ALL AGRICULTURAL AND OPE DEALERS

ATTENTION:

Dealer Principal Service Manager Parts Manager

SUBJECT:

TWO SPEED TRANSAXLE GEAR ENGAGEMENT ADJUSTMENT MODELS 220, 222, 224

Action To Be Taken:

Each dealer must elongate the mounting holes in the front seat support on affected units. Only partial high range gear engagement is possible on affected units. This causes premature wear and failure of the gear teeth. Moving the front seat support slightly to the left will allow the shift lever to hold full engagement.

Machines Involved:

Model 220 PIN 14019184 to PIN 14019405 Model 222 PIN 14020869 to PIN 14021092 Model 224 PIN 14022622 to PIN 14022818

Parts Procurement:

No parts are required.

ACCOUNTING:

Labor:

Up to .5 hours per tractor.

Reimbursement:

The cost of labor can be recovered by submitting a Service Adjustment Request.

- 1. Use Account 7491 if sold at Retail. Use Account 7479 if in Dealer Stock.
- 2. Use Prime Part: C14644 Gear
- 3. Use Service Code: 205 Misalignment
- 4. Use Machine Location: 90111
- 5. Use Job Code: 90111 HM 0.5 hours

Issued By	Date Issued	Bulletin No.	File Under:	
Customer & Product Service		A90-82	Binder: SERVICE INFORMAT:	ON 🗻
Agricultural Equipment Division	11/29/82	Supersedes	Tab: Compact Tractor	5



JI Case A Tenneco Company

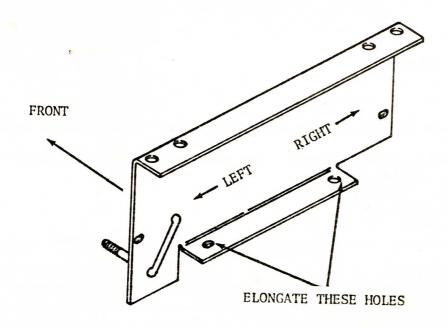
Form 3191 Rev. 1 Printed in U.S.A. Ag Service Bulletin
Two Speed Transaxle Gear Engagement
Adjustment Models 220, 222, 224
Page 2

INSTRUCTIONS:

- 1. Remove the fenders and rear seat support.
- 2. Carefully push the fuel tank aside and remove the front seat support with the seat attached.
- 3. Clamp the front seat support in a vice.
- 4. Elongate the front seat support mounting holes 5/16" (8 mm) to the RIGHT. This will allow the seat support to be shifted to the left. (Right and left are determined as seated in the tractor seat facing forward.)
- 5. Install the front seat support (with seat) and shift it as far to the left as the elongated holes will allow.
- 6. Tighten the bolts.
- 7. Check for full high range gear engagement.

Push the lever "down" into high range as far as it will go and release it. The distance between the top edge of the lever and the bottom edge of the pin must not be more than .12 inch (3.2 mm). If the distance exceeds .12 inch (3.2 mm), remove the seat support and increase the slot size.

- 8. Install the rear seat support and shift it as far to the left as the slotted holes allow.
- 9. Install the fenders. Push the fenders inward as far as the fender mounting bolts will allow to obtain as much clearance for the tire chains as possible. Tighten the fender mounting bolts.



NO

JICase A Tenneco Company

Service Adjustment Request ☐ AE Division

☐ LE Division ☐ OPE Division

☐ CE Division

☐ International

Commitme To Quality

INDICATE APPROPRIATE DIVISION FOR MAILING FACTORY USE ONLY REFERENCE 545586 PAGE MONTH MONTH YEAR HOURS John Smith (Or Stock) OPE Dealer Oshkosh, WI ACCT. NUMBER 7491 or 7479 **MOD PROGRAM NUMBER** 140XXXXX Anytown, USA GT200XXX REPLACEMENT OX-00XX-XXXXXX PARTS ADJ. /XX/XX XX/**X**X/XX JOS CODE JOB CODE YES 90111 H_M E XX A HOURS HOURS HOURS C14644 205 90111 0.5 JOB CODE YES B SERVICE CODE MACHINE LOCATION HOURS NO YES C SERVICE MACHINE LOCATION HOURS

DEALER COMMENTS TO VALIDATE REQUEST:

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DIVISION — SERVICE



SERVICE BULLETIN

Agricultural Equipment Division

DIRECTED TO: ALL AGRICULTURAL AND OPE DEALERS

ATTENTION: De

Dealer Principal Service Manager Parts Manager

SUBJECT:

MODEL J-22, J-24, K-22, K-24 SLEEVE HITCH REINFORCEMENT WHEN USED WITH

MODEL J-74 END DRIVE TILLER

Action To Be Taken:

Each dealer must reinforce the sleeve hitch in accordance with the attached instructions if installing a Model J-74 End Drive Tiller.

Machines Involved:

All 200 and 400 Series tractors if equipped with a sleeve hitch and Model J-74 End Drive Tiller.

Parts Procurement:

Obtain the following parts from SPS through your normal parts order channels:

Quantity	Part Number	Sleeve Hitch Model		
One kit per hitch	C26589	J-22, K-22		
One kit per hitch	C26592	J-24, K-24		

Installation Instructions:

One copy of sleeve hitch reinforcement instruction Form No. 9-51820 is attached to this bulletin. Additional copies can be obtained from Outdoor Power Equipment Division, 119 South First Street, Winneconne, WI 54986.

Accounting:

Labor

Up to 0.8 hours per hitch.

sued Bulletin No.		File Under:
82 A61-82 Supersedes		SERVICE INFORMATION COMPACT TRACTORS
	82	82



JI Case A Tenneco Company

Form 3191 Rev. 1 Printed in U.S.A. Service Bulletin Model J-22, J-24, K-22, K-24 Sleeve Hitch Reinforcement When Used with Model J-74 End Drive Tiller Page 2

Reimbursement

The cost of parts and labor can be recovered by submitting a Service Adjustment Request:

- 1. Use Account No. 7491 if sold at retail. Use Account No. 7479 if in dealer stock.
- 2. Use GT PARTS in place of Product ID.

NOTE: Any number of sleeve hitches in dealer stock can be listed on each SAR. Only one sleeve hitch sold at retail can be listed on each SAR.

3. Use Prime Part: C23707 for J-22 or K-22 hitch.

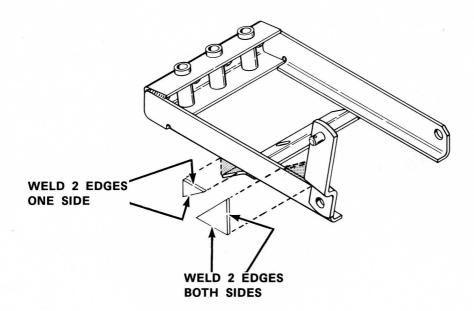
Use Prime Part: C22218 for J-24 or K-24 hitch.

- 4. Use Service Code 275 (enter Service Bulletin Number in "Comments" section).
- 5. Use Machine Location: 96131.
- 6. Use Job Code: (a) 96131 BW 0.5 hours if done before hitch is mounted
 - (b) 96131 B 0.3 hours

and

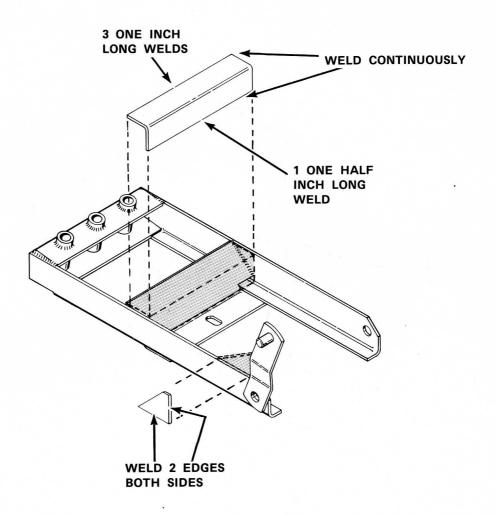
96131 BW $\,$ 0.5 hours if hitch is already mounted and must be removed from the tractor

Weld reinforcements to the sleeve hitch frame as shown in the illustration.



Form No. 9-51820

Weld reinforcements to the sleeve hitch frame as shown in the illustration.



FERENCE

J I Case A Tenneco Company

545503

Service Adjustment Request

☐ OPE Division

☐ International

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☐ AE Division☐ CE Division INDICATE APPROPRIATE DIVISION FOR MAILING

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SERVICE BULLETIN

Agricultural Equipment Division

DIRECTED TO:

ALL COMPACT TRACTOR AND AGRICULTURAL DEALERS

ATTENTION:

DEALER PRINCIPAL SERVICE MANAGER PARTS MANAGER

SUBJECT:

COMPACT TRACTOR MODEL 210: JACKSHAFT INPUT PULLEY BOLT INSPECTION:

MODIFICATION PROGRAM NO. M9-Y-80

Initial production of 1980 model year Model 210 Tractors can have a loose jackshaft input pulley bolt.

The proper tightening procedure began at the Plant with Product Identification Number 9779012.

The following action is required:

All affected Model 210 Tractors must have the jackshaft input pulley bolt tightened to a torque of 31 ft.1bs. (42 Nm). Be sure the spring washer does not collapse.

To prevent jackshaft from turning when tightening this bolt:

- A. Place front wheels against shop wall or securely block front side of rear wheels.
- B. Place transmission in 4th gear.
- C. Release clutch-brake pedal.

It is permitted to estimate this torque using a box end wrench, since a standard torque wrench and socket will not fit this application.

The following tractors are affected:

P.I.N. 9760975 through 9779012

(Continued next page)

Issued By

CUSTOMER AND PRODUCT SERVICE AGRICULTURAL EQUIPMENT DIVISION

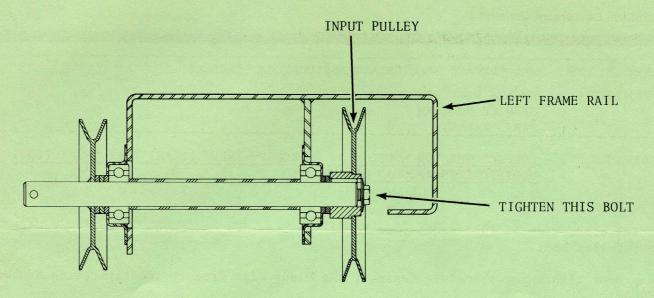
Date Issued 5/28/80

Bulletin No. G1-80 A22-80 Supersedes File Under:
Binder: SERVICE INFORMATION

Tab: 1045

TENNECO

JI Case A Tenneco Company Form 3191 Rev. 1 Printed in U.S.A. Refer to the following illustration:



ACCOUNTING:

PARTS

No parts are required.

LABOR

A. Units in Dealer Inventory:

Check this bolt for tightness during pre-delivery. This check requires a minimal amount of time. No labor allowance is granted for units in dealer inventory.

B. Units Solt at Retail:

Check or have the customer check this bolt for tightness immediately. Up to one (1) hour labor is allowed for retail units.

NOTE: Whether in stock or retailed, it is most important that this bolt be checked for proper tightness before the affected tractors are further operated.

REIMBURSEMENT

The cost of labor for retailed units can be recovered by submitting a Service Adjustment Request using Account 7492, Machine Area Code 10-11, and Modification Program No. M9-Y-80.

DEADLINE DATE

Service Adjustment Request must be submitted and postmarked no later than July 15, 1980, for retailed units.

NOTE: Failure to accomplish this inspection may result in denial of Service Adjustment Requests, resulting from failures in this area.

CUSTOMER AND PRODUCT SERVICE AGRICULTURAL EQUIPMENT DIVISION

		ROUTING		
DEALER PRINCIPAL	SERVICE MANAGER	PARTS MANAGER	MECHANICS	REFERENCE FILE

INGERSOLL Ingersoll Equipment Co., Inc.

Exclusive Manufacturer of JICase Outdoor Power Equipment

SERVICE BULLETIN

April 25, 1986

#86-1

DIRECTED TO:

ALL INGERSOLL/CASE LAWN & GARDEN TRACTOR DEALERS

ATTENTION:

DEALER PRINCIPAL SERVICE MANAGER PARTS MANAGER

SUBJECT:

Front Wheel Snap-Rings - Model 80XM, 80XE, 80XC

RIDING LAWN MOWERS

ACTION TO BE TAKEN:

Install the correct snap-rings (P/N C28232) on the front wheel spindles during set-up and pre-delivery inspection. You may elect to send snap-rings to a customer to install if an affected unit is already delivered.

The incorrect snap-rings (P/N C28808) were put in the hardware bags of the affected units. The P/N C28808 snap-ring is to be used to secure the rear wheels only.

PURPOSE:

To insure proper retention of the front wheels on the machines involved.

The incorrect snap-ring (P/N C28808) is too thin for the groove and can be unseated during operation.

MACHINES INVOLVED:

MODEL	<u>P.I.N.</u>	THRU	<u>P.I.N.</u>
80XC	14078019		14081282
80XE	14078877		14082271
80XM	14079639		14083789

PARTS INFORMATION:

Order P/N C28232, snap-rings, from: Ingersoll Service Parts

3600 Moser Street Oshkosh, WI 54903

Two snap-rings per affected unit are required.

INSTALLATION INSTRUCTIONS:

Use appropriate snap-ring pliers and install the snap-rings with the sharp edge facing outward.

REIMBURSEMENT:

Normal warranty will apply.

PARTS: All snap-rings for all affected units at your dealership can be

listed on one Service Adjustment Request.

(List the P.I.N.'s in the comment section of the SAR).

LABOR: No labor is allowed since the operation is normally included in

set-up.

Use Prime Part C28808 on the Service Adjustment Request.



SERVICE BULLETIN

Agricultural Equipment Division

DIRECTED TO: ALL COMPACT TRACTOR DEALERS

ATTENTION:

DEALER PRINCIPAL SERVICE MANAGER PARTS MANAGER

SUBJECT:

MODEL 80 RER MOWER BLADE BOLT

This Bulletin Supersedes Ag Service Bulletin A71-83.

Several reports from the field have been received indicating that the mower blade bolt has loosened or broken.

The cause for the bolt loosening and/or breaking has been attributed to the spindle bearing spacer (C24916) deforming and not providing the required compression load for the blade bolt. A thicker wall spacer is used effective with Model 80 RER PIN 14030722. The new spacer C24916 (same part number) has an OD of 1" (25.4mm). The old spacer's OD was 7/8" (22.2mm). SPS stock has been purged and any recently ordered spacers will be the new style.

Replace the spacer on all Model $80~\rm RER$ mowers beginning with PIN 9759168 and prior to PIN 14030722 when the blade becomes loose, the unit is in for service, or when setting up and pre-delivering a new unit.

LABOR ALLOWANCE

One (1.0) hour will be allowed at the current registered dealer rate.

REIMBURSEMENT

Dealers can recover the cost of the spacer (C24916), 10% handling, and one hour labor by submitting a Service Adjustment Request indicating work done per Service Bulletin No. A71-83. Any additional parts worn and replaced due to normal use are not to be submitted for reimbursement.

Enter: Account Number 7479 for units in dealer inventory.

Account Number 7491 for units in retail and within regular warranty coverage. Account Number 7493 for retailed units out of regular warranty coverage.

A sample Service Adjustment Request is attached. Please note the proper job code and prime part numbers.

Issued By

Parts Service & Training Agricultural Equipment Division **Date Issued** 12/22/83

A72-83

Supersedes A71-83

Bulletin No.

Binder:

File Under:

SERVICE INFORMATION

Tab: COMPACT TRACTORS



JI Case A Tenneco Company

Form 3191 Rev. 1 Printed in U.S.A.

DEALER PRINCIPAL	SERVICE MANAGER	PARTS MANAGER	MECHANICS	REFERENCE FILE

INGERSOLL Ingersoll Equipment Co., Inc.

Exclusive Manufacturer of JICase Outdoor Power Equipment

SERVICE BULLETIN

April 30, 1986 #86-2

DIRECTED TO: ALL INGERSOLL/CASE LAWN & GARDEN TRACTOR DEALERS

ATTENTION:

DEALER PRINCIPAL SERVICE MANAGER PARTS MANAGER

SUBJECT:

MODIFICATION PROGRAM

VAPOR LOCK SYMPTOMS - MODEL 114YT AND 116YT YARD TRACTORS

ACTION TO BE TAKEN:

IMPORTANT: All affected 114YT and 116YT yard tractors must be modified.

- 1. Provide a ventilation slot in the front of the hood.
- 2. Add a muffler baffle.
- 3. Reroute and insulate the fuel line.

PURPOSE:

- 1. To permit additional cooling air to the engine and carburetor.
- 2. To reduce fuel pump temperature.
- 3. To keep fuel cooler and prevent vapor lock.

MACHINES INVOLVED:

114YT Prior to P.I.N. 14087915

116YT Prior to P.I.N. 14089641

PARTS INFORMATION:

Order P/N C30060 Kit, one per affected tractor at your dealership.

Order From:

INGERSOLL SERVICE PARTS

3600 Moser Street Oshkosh, WI 54903

INSTALLATION INSTRUCTIONS:

See Installation Instructions - Form #8-55280 attached.

REIMBURSEMENT:

- 1. Normal warranty will apply.
- 2. Submit one Service Adjustment Request per tractor.

3. Use Prime Part: C30060 Dealer Net Price \$5.10

4. Service Code not required.

5. Use No Job Code: Enter 1 hour if in dealer stock

Use No Job Code: Enter 2 hours if retailed

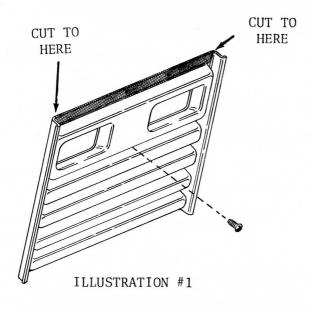
INSTALLATION INSTRUCTIONS MODEL 114YT AND 116YT HEAT REDUCTION KIT - FORM #8-55280

A. HOOD

- 1. Remove the hood.
- 2. Remove the headlights from the hood.
- 3. Remove the plastic grille insert.
 - a. Remove the 2 screws which secure the insert.
 - b. Use a small screwdriver to pry the upper left edge of the insert from the hood and then pop it out.
- 4. Cut the plastic insert.
 - a. Place the insert face up on a solid cutting surface.
 - b. Use a sharp utility knife.
 - c. Cut along the mold line as shown in illustration #1.
 - d. Remove and discard the cut piece.

5. Cut the hood:

- a. Place the hood front end down on a piece of carpet or other suitable material to prevent the hood from being scratched.
- b. Use a mini grinder or die grinder with a suitable cut off wheel.
- c. Cut along the first bend line from the top as show in illustration #2.
- d. Remove and discard the cut piece. (Shaded area).



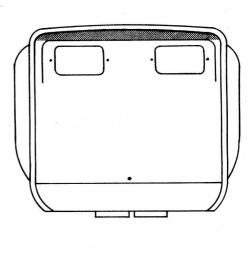


ILLUSTRATION #2

6. Reassemble the hood:

- a. Install the plastic insert.
- b. Drill a .1285 hole (No. 30 Drill Bit) through the first horizontal rib under the headlights and secure with the screw previously used in the portion cut away.
- c. Install the headlights.

B. Install the Muffler Baffle

- 1. Remove the two front bolts which secure the existing muffler baffle to the cylinder head baffles.
- 2. Install the new muffler baffle so the curved portion is down and will direct air rearward.

C. REPLACE THE FUEL LINE

1. Disconnect the fuel line and drain the fuel into an approved container.

CAUTION: Handle gasoline with care - it is highly flammable.

a. Use approved gasoline container.

- b. Never remove the cap of the fuel tank or add gasoline to a running or hot engine, or fill the fuel tank indoors. Allow engine to cool for several minutes before refueling. Clean up spilled gasoline.
- c. Open doors if the engine is run in the garage exhaust fumes are dangerous. Do not run the engine (motor) indoors.
- d. Do not smoke when working near fuel.
- 2. Remove and discard the fuel line between the fuel pump and fuel filter.
- 3. Connect the new fuel line to the fuel filter.
- 4. Route the new fuel line across the rear of the engine and through the right hand lift tab.
- 5. Slip the insulating sleeve over the remaining fuel line.
- 6. Connect the fuel line to the fuel pump inlet.
- D. Install the Hood and Reconnect the Headlight Wires.

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Agricultural Division

Service Bulletin

Directed To ALL COMPACT TRACTOR & AGRICULTURAL DEALER

File Code 1045

Date December 4, 1978

No. G 1-78 A30-78

Subject MODEL 80 RIDING MOWER, KIT #C25124 - MODIFICATION PROGRAM #9-G-78

ATTENTION:

SERVICE MANAGER

PARTS MANAGER

This Service Bulletin announces a Modification Program for all Model 80 Riding Mowers produced during 1977 and 1978.

Kit No. C25124 contains the necessary parts and detailed instructions to complete the modification, which involves several different areas of the machine.

ACTION TO BE TAKEN

Each dealer must check his sales records and make contact with each Model 80 retail customer/owner and request that each machine be returned to the dealership for modification during this coming winter season.

Additionally, any 1977/1978 Model 80 Riding Mowers in dealer inventory will also need to be modified under this program.

MACHINES INVOLVED

All 1977/1978 Model 80 Riding Mowers Serial No. 9745295 through 9759203 inclusive.

PARTS PROCUREMENT

Kit No. C25124 can be obtained from SPS through your normal parts ordering channels.

ACCOUNTING

Labor:

Up to six (6) hours per machine will be allowed to carry out the modifications detailed in the Kit Part No. C25124.

Reimbursement:

The cost of the parts and labor can be recovered by submitting a standard Warranty Adjustment Request, using Account 7492, Machine Area Code 7-3, and Program #9-G-78.

DEADLINE DATE

Termination date for Program #9-G-78 is June 30, 1979.

CUSTOMER AND PRODUCT SERVICE AGRICULTURAL EQUIPMENT DIVISION



JI Case A Tenneco Company

Printed in U.S.A.



SERVICE BULLETIN

Agricultural Equipment Division

DIRECTED TO: ALL AGRICULTURAL AND OPE DEALERS

ATTENTION: De

Dealer Principal Service Manager Parts Manager

SUBJECT:

MODEL J-22, J-24, K-22, K-24 SLEEVE HITCH REINFORCEMENT WHEN USED WITH

MODEL J-74 END DRIVE TILLER

Action To Be Taken:

Each dealer must reinforce the sleeve hitch in accordance with the attached instructions if installing a Model J-74 End Drive Tiller.

Machines Involved:

All 200 and 400 Series tractors if equipped with a sleeve hitch and Model J-74 End Drive Tiller.

Parts Procurement:

Obtain the following parts from SPS through your normal parts order channels:

Quantity	Part Number	Sleeve Hitch Model
One kit per hitch	C26589	J-22, K-22
One kit per hitch	C26592	J-24, K-24

Installation Instructions:

One copy of sleeve hitch reinforcement instruction Form No. 9-51820 is attached to this bulletin. Additional copies can be obtained from Outdoor Power Equipment Division, 119 South First Street, Winneconne, WI 54986.

Accounting:

Labor

Up to 0.8 hours per hitch.

Issued By	Date Issued	Bulletin No.		File Under:
Customer & Product Service	9/3/82	A61-82	Binder:	SERVICE INFORMATION COMPACT TRACTORS
Agricultural Equipment Division		Supersedes	Tab:	



JI Case A Tenneco Company

Form 3191 Rev. 1 Printed in U.S.A. Service Bulletin Model J-22, J-24, K-22, K-24 Sleeve Hitch Reinforcement When Used with Model J-74 End Drive Tiller Page 2

Reimbursement

The cost of parts and labor can be recovered by submitting a Service Adjustment Request:

- 1. Use Account No. 7491 if sold at retail. Use Account No. 7479 if in dealer stock.
- 2. Use GT PARTS in place of Product ID.

NOTE: Any number of sleeve hitches in dealer stock can be listed on each SAR. Only one sleeve hitch sold at retail can be listed on each SAR.

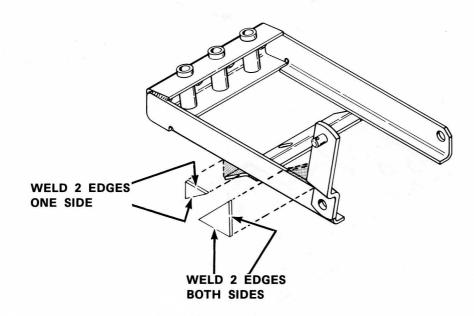
- 3. Use Prime Part: C23707 for J-22 or K-22 hitch.
 Use Prime Part: C22218 for J-24 or K-24 hitch.
- 4. Use Service Code 275 (enter Service Bulletin Number in "Comments" section).
- 5. Use Machine Location: 96131.
- 6. Use Job Code: (a) 96131 BW 0.5 hours if done before hitch is mounted
 - (b) 96131 B 0.3 hours

and

96131 BW $\,$ 0.5 hours if hitch is already mounted and must be removed from the tractor

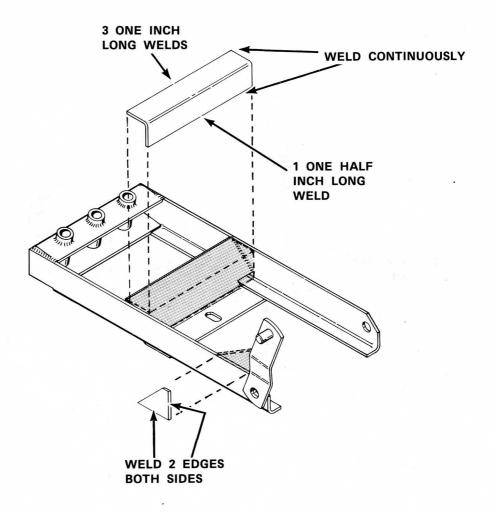
INSTALLATION INSTRUCTIONS P/N C26589 REINFORCEMENT KIT FOR J-22/K-22 SLEEVE HITCH (SEE OTHER SIDE FOR C26592 KIT)

Weld reinforcements to the sleeve hitch frame as shown in the illustration.



Form No. 9-51820

Weld reinforcements to the sleeve hitch frame as shown in the illustration.



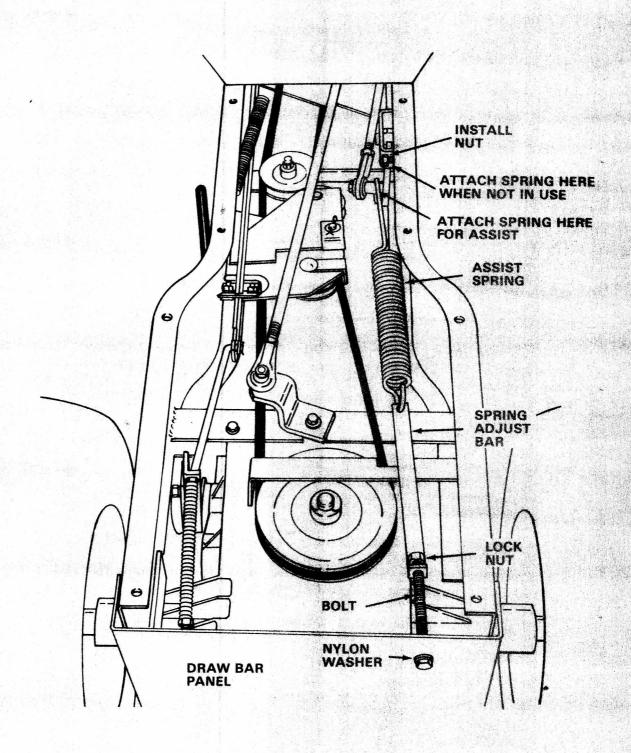
INSTALLATION INSTRUCTIONS FOR ATTACHMENT LIFT ASSIST SPRING ON 100 SERIES YARD TRACTORS C30162KIT

- 1. Remove center tray and rear fenders from the tractor frame.
- 2. Insert the bolt with nylon washer through the rear drawbar panel.
- 3. Install the spring adjust bar on the bolt. Secure with the lock nut.
- 4. Put the attachment lift lever into the transport position. Attach the spring, as shown, from the spring adjust bar to the bellcrank.
- 5. Install a lock nut on the rear bolt of the mounting bracket for the bellcrank. Leave a 1/8 inch space between the two nuts. This will provide an anchoring point for the assist spring when it is not needed.
- 6. Adjust the lift assist spring according to the operator's manual.
- 7. Install the rear fenders and center tray.
- 8. When you use the lift for the 34", 38" and 42" mowers, the assist spring is not needed. The lift assist spring must be removed to prevent these mowers from spontaneously raising into the transport position. To disconnect the lift assist spring, use the following procedure:
 - a. Remove center tray.
 - b. Put the attachment lift lever into the transport position.
 - c. Release the tension on the lift assist spring by turning the bolt counterclockwise.
 - d. Disconnect the assist spring from the bellcrank end only.
 - e. Hook the assist spring to the rear bolt of the mounting bracket for the bellcrank. Put it between the two nuts.
 - f. Put tension on the assist spring to keep it in place.
 - g. Install the center tray.

SEE OTHER SIDE FOR ILLUSTRATION

Form No. 8-55710

11-86-RP-4000



JICase A Tenneco Company

Outdoor Power Equipment Division



119 South First Street Winneconne, Wisconsin 54986 Phone 414 582-4455

November 14, 1980

TO: All Compact Tractor Dealers

Effective with the units listed below the unit crate will contain a crating check list signed by the individual responsible for the final crating.

If a parts shortage should occur on any of these units, the name of the individual must be included with the model and serial number when making the request for parts shipment.

The starting serial numbers are as follows:

Mod	80	9776173
108		9777233
110		9778137
210		9779220
220		9780482
222		9782187
224		9783698
444		9785120
446		9787815
448		9790052
646	A11	9791174
648	A11	First Unit

Sincerely,

J. J. <u>Ralza</u> Distribution & Plans Manager

JJB/ht

cc: District Managers Service Reps



INSTALLATION INSTRUCTIONS P/N C27271 TRAVEL CONTROL LINKAGE AND DETENT KIT

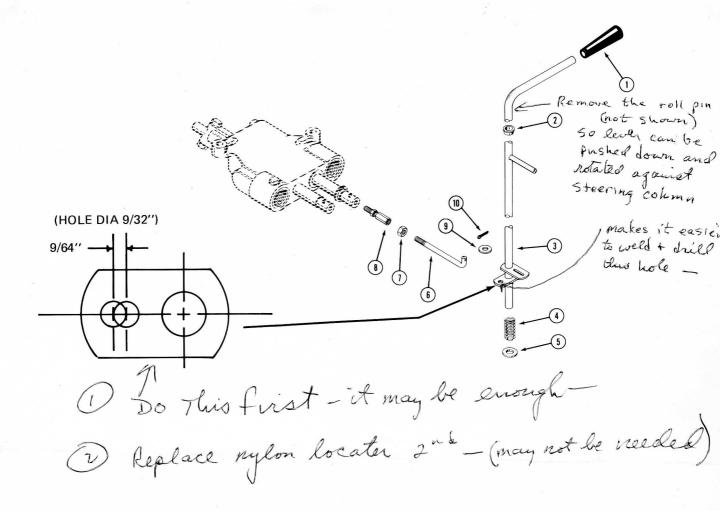
To install this kit:

- A. The travel control neutral start switch mush be changed.
- B. A new end cap with detent must be installed on the travel circuit spool of the travel control valve.
- C. The old hole welded closed and a new hole drilled in the travel control lever tab.
- A. Install the new travel control neutral start switch.
 - Drain the hydraulic oil into a clean container. The oil should be saved and reused.
 - 2. Remove the battery.
 - 3. Remove the tower access panel and disconnect the rectifier.
 - 4. Remove the pump suction hose clamp at the pump.
 - 5. Remove the heat shield and necessary wiring from in front of the reservoir.
 - 6. For Kohler equipped tractors, remove the rear engine baffle and exhaust pipe. For Onan equipped tractors, remove the air cleaner and left hand (#2) rear baffle.
 - 7. Move the reservoir aside.
 - 8. Replace the travel control neutral start switch.
- B. Install new end cap and detent.
 - 1. Remove the link from the attachment lift control lever tab and travel control lever tab.
 - 2. Remove the tubes and hoses from the control valve.
 - 3. Remove the travel control valve.
 - 4. Place the valve in a soft jawed vice with the rear end facing upward.
 - 5. Remove and discard (from the travel control spool), the end cap (27), the screw (26), retainer (25), and centering sring (24).
 - 6. Leave the first flat washer (23) in place. Put a second flat washer (6), provided, on top of the first.
 - 7. Put Loctite #242 on detent screw (9) install, and tighten to a torque of 24 to 36 inch lbs.
 - 8. Install the detent cap (10), balls (11), springs (12), and screws (13).
 - 9. Install the travel control valve. (Do not connect linkage at this time.)
 -OVER-

- C. Drill hole in travel control lever.
 The old hole must be filled with weld and a new hole, 9/32" (7.14mm) diameter, must be drilled 9/64" (3.57mm) closer to the lever shaft.
 - 1. Position the travel control lever in full forward to permit access to the tab.
 - 2. Scribe a centerline on the tab from the shaft through the existing hole. (See diagram)
 - 3. Measure, along that centerline, from the right hand edge of the tab to the left hand edge of the existing hole. Record this measurement... it will be the center of the new hole.
 - 4. Close the old hole.
 - 5. Center punch and drill the new 9/32" hole.
 - 6. Grind smooth one side of washer (9) to prevent interference with lever shaft.
 - 7. Connect travel control and implement lift linkage. Adjust travel control linkage so that detents for neutral and retard agree between the travel control neutral start switch and valve.
 - 8. Install reservoir.
 - 9. Fill reservoir, reinstall rectifier, access panel, battery, and other items removed.

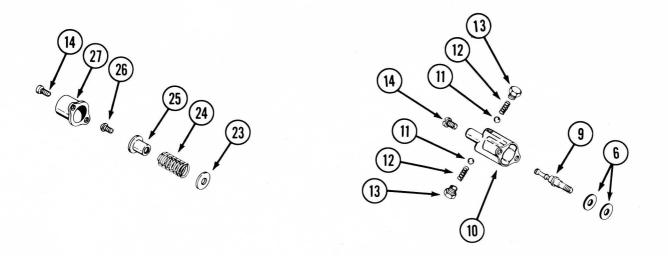
Carefully operate tractor. Check for leaks and readjust the travel control valve link if necessary.

Recheck the hydraulic oil level and add if necessary.



REMOVE

INSTALL



SET UP INSTRUCTIONS FOR TRACTOR MODELS 3010, 3012, 3014, 3016, 3018, 4014, 4016, 4018, 4020

- 1. Remove the steel straps which secure the tractor to the shipping skid.
- 2. Carefully raise and block the front of the tractor to provide clearance for installing the king pin assemblies and the front wheels.
- 3. Clean the king pins. Remove one heat treated washer from each king pin. Assemble the king pins to the front axle.
 - Place the two heat treated washers, previously removed, over the top of the king pins and install the retaining rings provided.
- 4. Attach the drag link to the right hand king pin.
- 5. Place one thick shim washer over each front spindle. Install the front wheels with the valve stems to the OUTSIDE. Add shim washers as required to reduce end play to a minimum.
- 6. a. Install retaining rings if equipped. Make sure they are fully seated in the grooves with the square cut edge to the outside.
 - b. Or install cotter pins if equipped. Bend over completely, flatten head and squeeze ends tight against spindles with a large pair of pliers.
- 7. Grease the wheels. Install the dust caps.
- 8. Remove the blocking from the front of the tractor.
- 9. Carefully raise and block the rear of the tractor to provide clearance for installing the rear wheels.
- 10. Use the following procedure to install the fenders:
 - a. Position the fenders on the seat support.
 - b. Loosely install the front, rear, and top fender bolts and the screw and nut between the fender and foot support.
 - c. Tighten all bolts.
- 11. Install the rear wheels with the valve stems to the INSIDE.
 Tighten lug bolts:

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3000 Series Tractors - 65-70 lb. ft. (90-95 Nm)
4000 Series Tractors - 80-85 lb. ft. (110-115 Nm)
```

12. Remove blocking from rear of tractor.

(OVER)

- 13. Pull the steering shaft up as far as it will go. Keep the steering shaft in this position while performing the following steps.
- 14. Clean the exposed end of the shaft and apply a coating of antiseize compound.
- 15. Temporarily install the steering wheel and insert a punch (or similar tool) through the roll pin hole.
- 16. Select shim washers from the hardware bag.
- 17. Use the shim washers as a gauge to determine how many washers are required to shim between the bottom of the steering wheel and the steering support. Use enough shim washers to reduce end play to a minimum.
- 18. Remove the steering wheel and place the shim washers over the shaft.
- 19. Install the steering wheel with one spoke pointing forward.
- 20. Install the roll pin.
- 21. 4000 Series tractors only: Install the seat in the desired position. (Install the seat in the center holes, if for display purposes).

Put one rubber cushion between the seat and seat hinge and the other rubber cushion under the seat hinge with the flat washer under the bolt head.

NOTE: Before operating or delivering the tractor to a customer, perform the checks outlined on the "PREDELIVERY CHECK SHEET".

NOTE: Tractor engine will not run unless a functional battery is installed.

SET UP INSTRUCTIONS FOR TRACTOR MODELS 3010, 3012, 3014, 3016, 3018, 4014, 4016, 4018, 4020

- 1. Remove the steel straps which secure the tractor to the shipping skid.
- 2. Carefully raise and block the front of the tractor to provide clearance for installing the king pin assemblies and the front wheels.
- 3. Clean the king pins. Remove one heat treated washer from each king pin. Assemble the king pins to the front axle.

Place the two heat treated washers, previously removed, over the top of the king pins and install the retaining rings provided.

- 4. Attach the drag link to the right hand king pin.
- 5. Place one thick shim washer over each front spindle. Install the front wheels with the valve stems to the OUTSIDE. Add shim washers as required to reduce end play to a minimum.
- 6. a. Install retaining rings if equipped. Make sure they are fully seated in the grooves with the square cut edge to the outside.
 - b. Or install cotter pins if equipped. Bend over completely, flatten head and squeeze ends tight against spindles with a large pair of pliers.
- 7. Grease the wheels. Install the dust caps.
- 8. Remove the blocking from the front of the tractor.
- 9. Carefully raise and block the rear of the tractor to provide clearance for installing the rear wheels.
- 10. Use the following procedure to install the fenders:
 - a. Position the fenders on the seat support.
 - b. Loosely install the front, rear, and top fender bolts and the screw and nut between the fender and foot support.
 - c. Tighten all bolts.
- 11. Install the rear wheels with the valve stems to the INSIDE.
 Tighten lug bolts:

```
3000 Series Tractors - 65-70 lb. ft. (90-95 Nm)
4000 Series Tractors - 80-85 lb. ft. (110-115 Nm)
```

12. Remove blocking from rear of tractor.

(OVER)

SET UP INSTRUCTIONS FOR RIDING LAWNMOWER

1. Install Steering Wheel:

- a. Using a large screwdriver, pry up on the pinion gear on the lower end of the steering shaft.
- b. Install shims provided under steering wheel to reduce steering shaft end play to between .002" and .120" (.05 and 3 mm).
- c. Clean the exposed end of the shaft and apply a coating of anti-seize compound.
- d. Position steering wheel on shaft and sight dowel pin hole to insure alignment. If hole in steering wheel and shaft are not in perfect alignment, rotate steering wheel 180° in relation to the shaft.
- e. Carefully drive dowel pin through steering wheel hub and shaft.

2. Install Front Wheels and Tires:

- a. Oil front wheel spindles lightly.
- b. Position one thrust washer on each side of wheel and install wheels on spindles with valve stems out.
- c. Secure with snap rings.
- d. Grease front wheels. Install plastic dust caps.
- e. Adjust front tire pressures to 8 PSI.
- 3. Adjust rear tire pressures to 8 PSI.
- 4. Check the mower deck level adjustment:

For Best Results:

- a. If unit is sold with a bagger attachment, the front tip of blade should be 3/8" to 1/2" (9 mm to 12 mm) lower than rear tip.
- b. If unit is sold without a bagger attachment, the front tip of blade should be 1/4" to 3/8" (6 mm to 9 mm) lower than rear tip.
- c. Deck level measurements should be made with operator's seat unoccupied and bagger (if so equipped) empty.
- d. If deck level is incorrect, refer to the leveling procedure in the operator's manual provided with this machine.

Install Discharge Chute:

- a. Discharge chute must be installed before operating.
- b. Install to two holes using carriage bolts provided.
- Activate and charge battery.
- 7. Check engine oil level.
- 8. Fill fuel tank with clean, fresh gasoline.

NOTE: Before operating or delivering the tractor to a customer, perform the check outlined on the "Predelivery Check Sheet".

PRINTED IN USA

. Form # 1130

Warranty Start Date: Product Identification Number: 14/7/694 Warranty Start Date: SELLING DEALER Name: Selling Dealer Name: Anderson Sales Address: Address: Address: Phone: 701-265-4977 Dealer Code: DEALER INSTRUCTIONS

When the unit is sold:

- Complete the unit, customer and selling dealer information sections above.
- Review the information contained on this annual service check-up form with the purchaser.
- At the time of delivery, be sure this check-up form is given to the purchaser along with the equipment Operator's Manuals.

When performing the annual check-up:

- Check that PIN number identified above matches PIN number on unit.
- Verify that this annual check-up is being performed within 12 months of the last annual check-up validated on the following check list pages. If last annual check-up was more than 12 months ago, refer to your Dealer IRES Warranty manual or contact the Ingersoll warranty department regarding how to proceed.
- The checklist identifies services the dealer must perform to maintain TOP Lifetime Warranty qualification. NOTE: Since engine warranty is limited to 24 months from date of purchase, customer is not required to have dealer perform engine related services after that warranty expires.
- Ensure that customer understands that responsibility for costs associated with this check-up and services are as follows:

Customer's responsibility -

- 1.) Transportation to and from dealer.
- 2.) Cost of parts & labor associated with performing routine check-up services.
- 3.) Additional services arranged between dealer and customer.

Ingersoll's responsibility -

1.) Cost of parts and labor associated with repair of any defective item covered by the TOP Lifetime Warranty

After service check-up is completed, be sure all items on the checklist have been performed and checked. Complete top and bottom portions of checklist with date, engine hours, dealer name, dealer code and work order number. Make a copy of the validated checklist and file with your owner registration information. To prevent confusion, keep only the latest validated checklist on file.