



# FORD NEW HOLLAND INSTALLATION INSTRUCTIONS

## 3-POINT HITCH KIT

PART NO. 86070394  
(FOR TRACTORS WITH  
A PTO)

PART NO. 86070393  
(FOR TRACTORS WITH-  
OUT A PTO)

TRACTORS

9280, 9480, 9680 and 9880

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### APPROXIMATE INSTALLATION TIME - 10 TO 12 HOURS

The 3-Point Hitch Kit is designed to mount on Ford Versatile 9080 series tractors. It allows the tractor to utilize 2 and 3-point attached implements, increasing the versatility of the tractor. The hitch is classified as a Category IV Narrow (Cat IVN), but can be converted to accept Category III Wide (Cat IIIW) implements. The following chart gives dimensions for Cat IIIW and Cat IVN hitches:

CATEGORY	IIIW/IVN
Upper Link Pin Dia	1.75 in.(45 mm)
Lift Link Pin Dia.	2.00 (51 mm)
Width at hitch point	36.18 (919 mm)

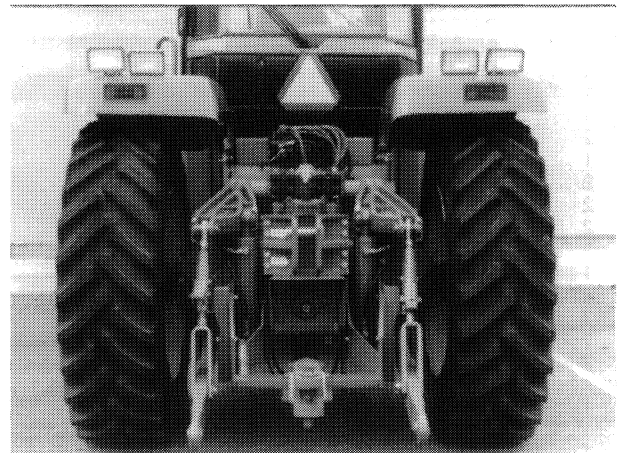


FIGURE 1

This procedure assumes a Cat IVN installation. To convert from Cat IVN to Cat III, the top link and lower links will be reversed. See your Operator's Manual for a detailed description of conversion procedures.

Once installed, the 3-point hitch can be controlled from the cab by a combination of switches and potentiometers. The lift rate is controlled by adjusting the flow control at the remote valve.

For a detailed description of the 3-point hitch controls, see your Operator's Manual.

## SAFETY

According to National Safety Council statistics, many people die or suffer serious injury each year as a result of needless farm accidents. Don't become a statistic.

Develop safe work habits. Put SAFETY FIRST in all work procedures.

The 3-Point hitch kits consist of the following:

Qty.	Part No.	Description
1	V55488	Bracket, Upper
1	V18160	Swayblock, RH
1	V18161	Swayblock, LH
1	V55539	Upper Link
2	V55540	Lift Link
2	V55541	Lower Link
1	V70091	Bracket
1	V70092	Bracket
2	9703812	Hydraulic Cylinder
1	86000321	Drawbar Cage
2	V18171	Pin
1	V49567	Hose
4	V55507	Shim
2	V55635	Pin
1	V55637	Pin
2	V55639	Pin
2	V55640	Pin
2	V55644	Pin
2	V55922	Plate
1	V56343	Bracket
4	V56380	Shim
3	V63954	Stud - Bolt
1	V90365	Body - Valve
2	V100198	Hose
2	V100199	Hose
1	V100200	Hose
1	86000623	Valve Cover
1	86000624	Hose
1	86050318	Hose
17	529070	Tie Strap
1	V77578	Wire Assy.
1	V92356	Controller
1	V93021	Kit, Seal
1	V94629	Wire Assy.
1	V96069	Light
1	9706934	Plate, Switch
1	9706935	Decal, Plate

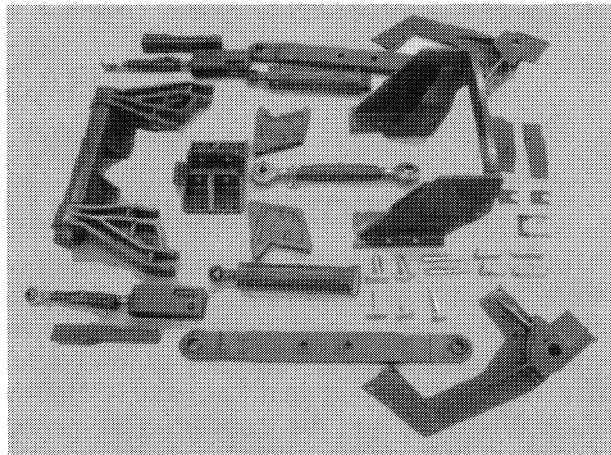


FIGURE 2

1	9701029	Controller
1	9706434	Wire Harness
4	9824331	Spring
2	9848710	Knob
2	86000538	Switch
5	V5575	Klik Pin
6	V12011	Lock Washer
6	V12037	Nut
1	325059	Connector
1	216773	Elbow
4	V18173	Spacer
2	V18790	Cotter Pin
6	V19104	Spring Pin
2	76351	Elbow
4	247780	Nut
2	V32804	Elbow
2	V43403	Lock Nut
4	V43765	Screw, Flange
2	128996	Union Tee
2	V50572	Groove Pin
4	V50632	Bolt
2	V55661	Bushing
1	V55957	Pin
1	V56007	Bushing
2	V56008	Bushing
1	V84384	Adaptor
1	V84481	Connector
2	643395	Screw
2	9804263	Screw
4	86050300	Nut
38 (26)*	V43430	Nut
20 (18)*	V44314	Washer
12	382101+	Bolt
4	SS9110ZDS	Screw
2	V12862	Washer
4	V13309	Washer
18	V43184	Capscrew
8	E620117S72	Nut
8	V44125	Screw
1	86050252	Washer
2	V48976++	Bracket
1	V55505++	Bracket
2	V103250++	Spacer
6	SS1940ZDS++	Capscrew
8	V44253++	Washer
8	87630++	Capscrew
1	V57212	Decal
1	V57213	Decal
2	V57214	Decal
2	V57215	Decal
1	V57216	Decal
1	41895300	Installation Instructions
1	Rockshaft consisting of:	
1	SS15043ZDS	Capscrew
1	V18135	Plate
4	V43139	Capscrew
3	V43650	Screw
4	V43864	Lock Washer
1	V43940	Set Screw
1 (9)	V44253++	Washer
2	V44458	Capscrew
2	V55265	Lift Arm
1	V66832	End Cap
1	V66833	Housing
1	V66834	Bracket
1	V66835	Hub
1	V66836	Disc
1	V66837	Bearing
1	V69619	Rockshaft
1	V84382	O-ring
1	V96102	Feedback Potentiometer
1	V69620	Housing
2	V18126	Bushing

\* Quantity required with PTO option shown in ( ).

+ Without PTO option only (Kit #86070393).

++ With PTO option only (Kit #86070394).

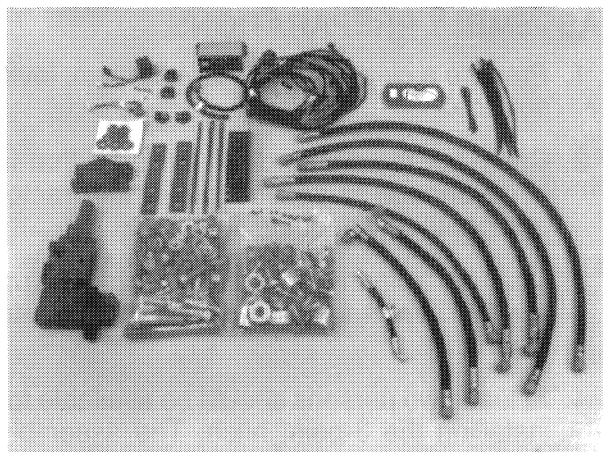


FIGURE 3

## ASSEMBLY PREPARATIONS

1. Prepare a clear work area with a firm, level surface.
2. Carry out the assembly in an area that is large enough to accommodate the tractor and contains adequate lighting.
3. Maintain a clean work area. Always wipe up any fluid spills that could be hazardous to footing.
4. At least two persons should be available for installing the 3-point hitch. The assembly instructions are based on this assumption.
5. Provide a hoist for lifting parts. Hoist equipment of at least 1/4 ton (225 kg) capacity is required for lifting and aligning the rockshaft assembly and drawbar cage.
6. Always use the proper tools required to ensure personal safety and to prevent damage to equipment.
7. Do not attempt any assembly procedures while the engine is running. Shut off the engine, remove the key from the keyswitch, set the park brake, apply the articulation lock and chock wheels before starting work.

## ASSEMBLY

The direction left and right are determined by standing at the drawbar facing the tractor engine.

## PREASSEMBLY

1. Select a level area large enough for the tractor.
2. Open all cartons of parts and assemblies and inspect all parts for possible damage during shipping.

**NOTE: Do not mix contents of packages. Keep all items from each package separate from each other to ensure easy identification of components.**

3. Clean paint and dirt off all mating surfaces. Lubricate all grease fittings and all bearing surfaces, ball swivels and pins.
4. Ensure the interior of all hydraulic fittings are kept clean. Ensure caps and plugs are installed on all valves and hoses, or that openings are taped over.
5. Ensure that the tractor is shut off with the park brake and articulation lock engaged.

## Recommended Tools and Equipment

1. Hoist of 1/4 ton (225 kg) capacity
2. 3/4 in. impact wrench

## MECHANICAL INSTALLATION

1. Remove the drawbar clevis, 1, and the wear block bridge plate, 2, allowing the drawbar to hang on its front pin.

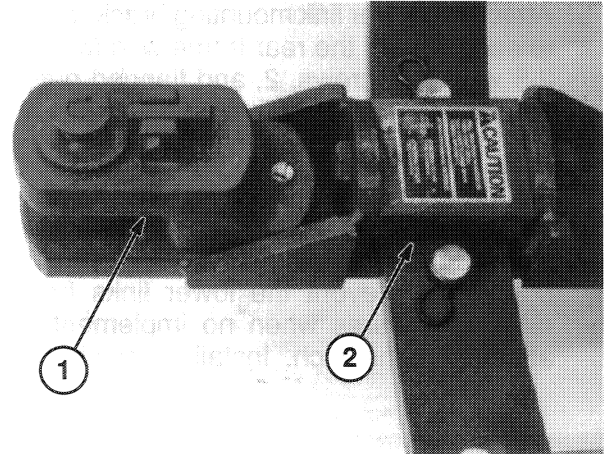


FIGURE 4

2. Remove the tractor drawbar cage, 1. There are 8 bolts on each side of the drawbar cage holding it to the rear frame. Discard the drawbar cage. Retain the drawbar and hardware for installation of the 3-point hitch drawbar cage.

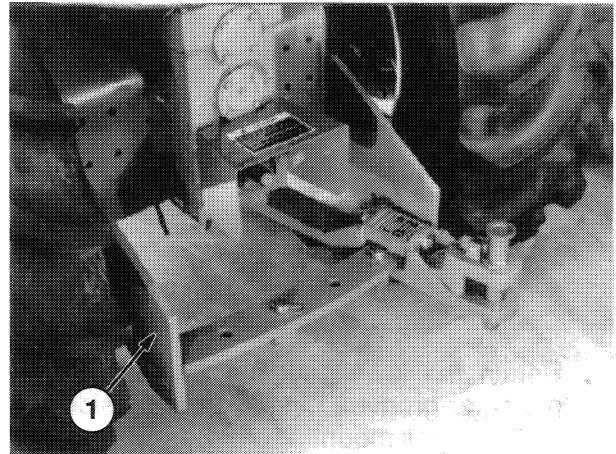


FIGURE 5

3. Install the 3-point hitch drawbar cage, 1, with twelve M20 X 2.5 X 60 capscrews, 2, and flange nuts. Torque nuts to 358 ft. lbs. (485 N·m). Install the drawbar, 3, to the new drawbar cage. Torque clevis and bridge hardware to 706 ft. lbs. (960 N·m.)
4. Detach the rear support bracket for the hydraulic couplers and trailer connector. It should not be necessary to disconnect hoses and wiring. Move the support bracket out of the way.

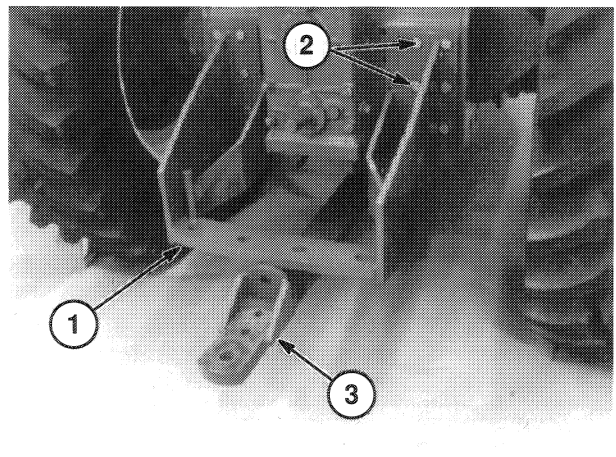


FIGURE 6

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