

13. Check the shifting action of the WO48-204 sliding ring. On Model 840RT and 840X this ring is shifted by the lever on the right-hand side (when sitting in the driver's position). It will probably be necessary to start the engine to properly line up the WO48-204 sliding ring and the mating part in the transfer case.
14. Remove the tape from the power take-off shaft, the winch shaft, and drive shaft. Examine these to be sure they are free of nicks. Test install the universal joints to be sure they are not too tight.
15. Install the rear universal joint (part 5J-42) placing it as far on the power take-off shaft as it will go. DO NOT tighten set screws.
16. Attach the 473-15 bracket to the vehicle frame with 2 5/16x3/4" cap screws, nuts, flat washers and lock washers as shown in Fig. 1. DO NOT tighten the bolts at this time.
17. Insert a 1/4x1" Woodruff Key in one end of the 473-75 drive shaft. This end will then be the end inserted in the rear universal joint 5J-42. Slip the 473-15 bearing bracket over drive shaft. (Part 473-75). The part with two slotted holes of the bearing bracket fits the underside of the vehicle frame. (See Fig. 1), leaving all bolts loose.
18. Insert the 473-75 drive shaft all the way into the rear universal joint 5J-42. Be sure drive shaft is on top of the front axle.
19. Insert a 1/4x1" Woodruff Key in front end of drive shaft and install the front universal joint. (Part 5J-105), placing it on the shaft as far as it will go.
20. Place winch mounting in vehicle frame. Connect front universal joint to winch worm shaft. Insert two 7/16"x1 1/2" bolts in each side of vehicle frame thru winch mounting. Place lock washer and nut on bolts and tighten securely.
21. Center the universal joint yokes over the keys in the 473-75 drive shaft, winch worm shaft and power take-off shaft. Tighten all set screws securely.
22. Tighten the bolts holding the 473-15 bearing bracket to the under side of the vehicle frame. Tighten the two adjustment bolts to clamp the 875 bearing.
23. Install the winch cable. It is advised to place the coil of cable on a rotating drum or stand to prevent kinking. If this is not available, un-wind the coil of cable by rolling it along the shop floor. Insert the end opposite the hook through the 4-way rollers in the bumper and through the hole in winch drum until the end is approximately 6" above the winch drum flange. Remove one of the 3/8"x7/8" cap screws holding the cable clamp to winch drum, loosen the other 3/8"x7/8" cap screw until it is almost out of the winch drum. Pull the cable under the clamp back thru the hole in winch drum until the end of cable is even with the top of the cable clamp. Tighten the cap screws in cable clamp. Cut off the cap screws smooth with inside of winch drum with a sharp chisel or hacksaw.
24. Grease all zert fittings on the winch and the 473-15 bearing with chassis lubricant. Oil the winch drum clutch and shifting mechanism with lubricating oil. Check the oil in winch housing. If low fill to 1" below plug level with EP140 gear oil or equal.
25. Wind cable on top of winch drum. Care should be taken to wind the cable evenly and as tightly as possible. If enough room is available, attach the hook to a solid anchor, pull the emergency brake slightly and wind the cable on the drum by allowing the winch to pull the vehicle across the shop floor. After all the cable is on the drum, place the hook on the bumper flange. Disengage the drum clutch by pulling up on the drum clutch lever. (Part 199). The drag brake will prevent the cable from un-winding.
26. The power take-off is lubricated by the transfer case oil. The oil will flow from the transfer case into the power take-off when the vehicle is driven or the power take-off is used. After the unit has been used once, check the oil level in the transfer case — if low, fill to the correct level with the Willys recommended oil for your climate.
27. If desired, a very neat finish can be made at the point where the power take-off levers or lever extend through the vehicle floor by installing a rubber grommet. The grommet can be obtained from your Willys dealer — for Models 840RT or 840X winch use Willys parts 801058 grommet and 663793 retaining plate. For Model 841RT winch use Willys parts 666610 grommet and 640708 retaining plate.