



Specialty Power Windows®

WINDSHIELD WIPER INSTALLATION INSTRUCTIONS FOR 1947 TO 1954 CHEVY TRUCKS

1. REMOVE ORIGINAL WIPER TRANSMISSIONS AND WIPER MOTOR ASSEMBLY WITH MOTOR MOUNTING BRACKET.
2. INSTALL WIPER TRANSMISSION WITH LEFT TRANSMISSION UP AND RIGHT TRANSMISSION DOWN AS PER DIAGRAM PG 3. *****NOTE*** GREASE** INNER WIPER SHAFTS BEFORE MOUNTING PERMANENTLY.
3. ASSEMBLE THE MOTOR, SPACER WASHER, AND THREE RETAINING BOLTS ACCORDING TO THE DIAGRAM PG 4. THE MOTOR CAN BE ROTATED ON THE GEAR HOUSING.
4. MOUNT THE WIPER MOTOR AND GEAR HOUSING IN DESIRED LOCATION UNDER DASH. *****NOTE***** IT IS HELPFUL TO GO AHEAD AND WIRE MOTOR NOW BEFORE MOUNTING IT IN PLACE.
5. PRE-BEND, MARK, CUT AND SINGLE FLARE BOTH ENDS OF A LENGTH OF TUBING TO FIT BETWEEN THE TWO TRANSMISSIONS. TUBE FLARES FIT IN NOTCHES IN THE BACK PLATE OF THE TRANSMISSIONS. **LENGTH "B"** (SEE PG 5). *****NOTE***** MAXIMUM BEND RADIUS IS 3 INCHES.
6. CUT AND SINGLE FLARE BOTH ENDS OF A 4-INCH PIECE. THIS IS TUBING **LENGTH "A"** ON PAGE 5. THE EXTRA FLARE MAY PREVENT A NOISE PROBLEM.
7. MEASURE FOR TUBING **LENGTH "C"** FROM THE WIPER TRANSMISSION NOTCH TO THE NYLON BLOCK IN THE MOTOR GEAR HOUSING (SEE PAGE 5) IT IS OFTEN BEST TO PRE BEND THE TUBE TO FIT, AND THEN MARK, CUT, AND SINGLE FLARE BOTH ENDS. *****NOTE***** MAXIMUM BEND RADIUS IS 3 INCHES.
8. INSTALL TUBES "A", "B" AND "C". **MAKE SURE FLARES ARE FIT INTO NOTCHES. DO NOT CRUSH FLARED TUBE ENDS.**
9. **COAT THE CABLE HEAVILY WITH WHEEL BEARING GREASE** AND SLIDE THE CABLE INTO THE TUBING HOUSINGS AND THROUGH BOTH TRANSMISSIONS.
10. DETERMINE THE SWEEP ANGLE OF YOUR WIPER SYSTEM. THIS IS THE TOTAL ANGLE IN DEGREES THAT THE WIPER ARM TRAVELS FROM ITS **PARK** POSITION TO THE **POINT OF MAXIMUM TRAVEL**. THE DRIVE WHEEL IS DRILLED IN INCREMENTS OF 10 DEGREES FROM 90 TO 160 DEGREES (SEE DIAGRAM ON PG 5). MARK THE HOLE IN THE DRIVE WHEEL CORRESPONDING TO THE SWEEP ANGLE.
11. RUN THE MOTOR TO DETERMINE THE PARK POSITION. AT THIS TIME IT PAYS TO RUN THE SWITCH AND MOTOR THROUGH ALL THE POSITIONS TO MAKE SURE WIRING IS CONNECTED PROPERLY, AND ALL FUNCTIONS ARE WORKING PROPERLY.

12. INSTALL THE DRIVE WHEEL ON THE MOTOR SHAFT IN THE CORRECT POSITION. THE HOLE YOU MARKED IN STEP #10 WILL BE ON **CENTER LINE** OF THE GUIDE BLOCK AS FAR FROM THE GUIDE BLOCK OR AS CLOSE TO THE GUIDE BLOCK AS POSSIBLE (SEE PG 4A) IF YOU MAKE AN ERROR, THE MOTOR WILL NOT PARK THE WIPER ARMS CORRECTLY, AND YOU WILL HAVE TO RE-POSITION THE DRIVE WHEEL.

13. LOCATE THE CABLE AND CABLE HOUSING IN THE MOTOR ASSEMBLY. INSTALL THE DRIVE LINK INTO THE HOLE ON **CENTER LINE** WITH THE DRIVE WHEEL AND THE HOLE IN THE CABLE BLOCK (SEE PG 4A). **GREASE** ALL MOVING PARTS LIBERALLY WITH WHEEL BEARING GREASE. REPLACE THE MOTOR GEAR HOUSING COVER, MAKE SURE ALL CABLE HOUSINGS ARE IN THE NOTCHES AND THAT ALL HARDWARE IS SNUG.

DO NOT INSTALL WIPER ARMS UNTIL THE SYSTEM IS COMPLETE AND HAS BEEN CHECKED FOR PROPER OPERATION. INSTALL ONE ARM AT A TIME, CHECKING FOR OPERATION.

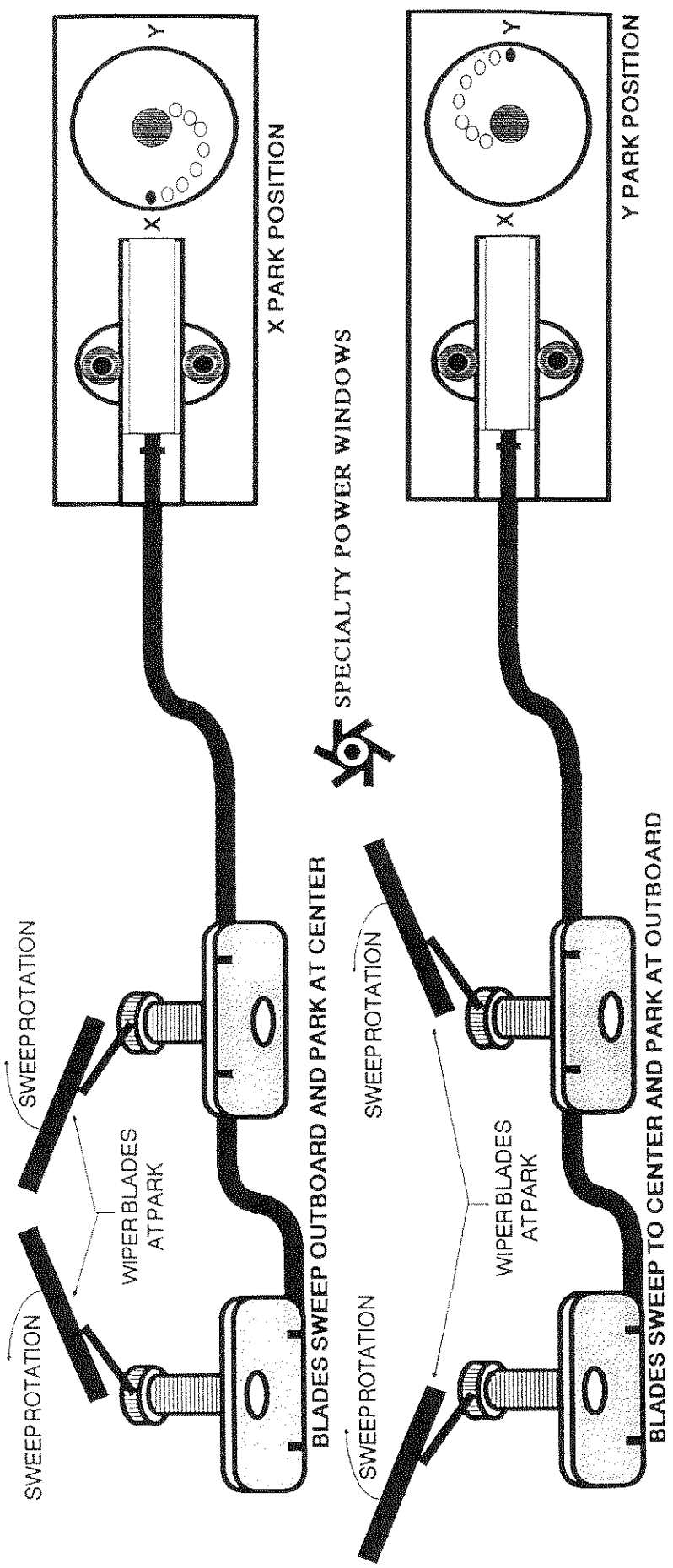
14. MOUNT THE SWITCH IN THE STOCK LOCATION AND CONNECT THE WIRING ACCORDING TO THE WIRE DIAGRAM. MAKE SURE UNIT HAS A GOOD **CHASSIS GROUND**. THE WIPER WILL NOT WORK PROPERLY WITHOUT A GOOD GROUND. DO NOT USE A BATTERY CHARGER TO TEST UNIT. YOU MUST USE A BATTERY FOR EVERYTHING TO WORK CORRECTLY.

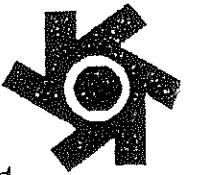
15. USING THE SWITCH, RUN THE MOTOR TO MAKE CERTAIN THAT EVERYTHING IS FUNCTIONING CORRECTLY. NOTE THAT THE PARK ANGLE IS CORRECT. (WE TEST THE SWEEP ANGLE AND PARK POSITION FIRST WITH A PAIR OF WIRE TIES ATTACHED TO THE KNURL PIVOTS.)

16. IF NOISE IS EVIDENCED, LOOK FIRST TO SEE IF A FLARE IS NOT PROPERLY SEATED IN ITS NOTCH. OTHER COMMON NOISE SOURCES ARE THE LAST SHORT TUBE ("A") IS MISSING, TUBE "A" IS NOT FLARED ON BOTH ENDS. **INSUFFICIENT GREASE** MAY ALSO MAKE THE UNIT NOISY.

17. INSTALL ONE WIPER ARM AT A TIME WITH THE SYSTEM IN PARK POSITION AND THE ARM INSTALLED ACCORDINGLY. HAVE A HELPER TURN ON THE SWITCH AND CHECK EACH ARM FOR TRAVEL AND PARK POSITION. BE READY TO LIFT ARM OFF OF GLASS OR AWAY FROM BODY TO AVOID DAMAGE. WHEN ONE WORKS, REPEAT PROCEDURE WITH THE OTHER TO COMPLETE THE INSTALLATION.

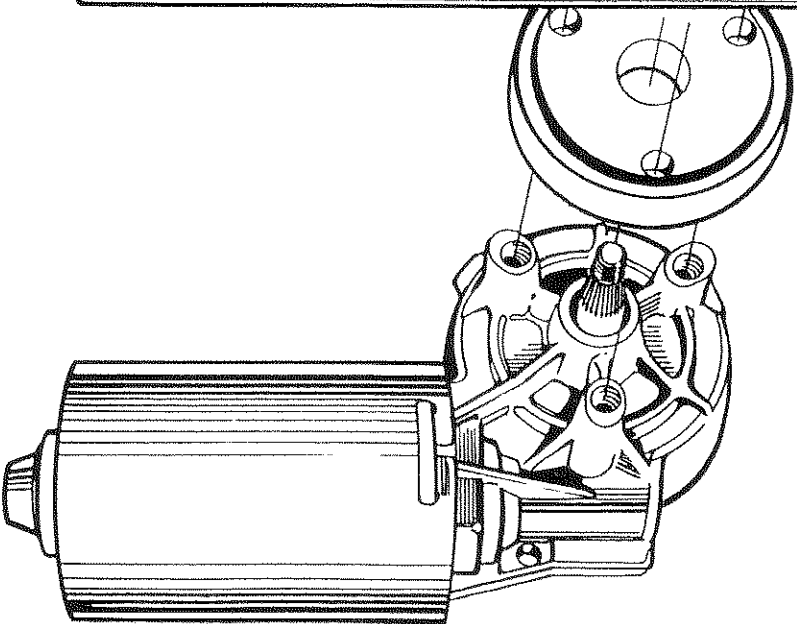
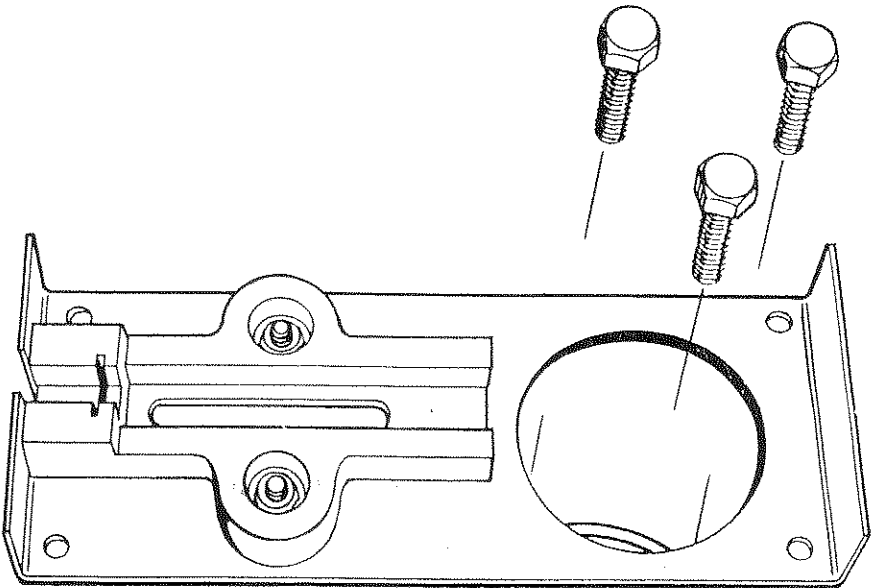
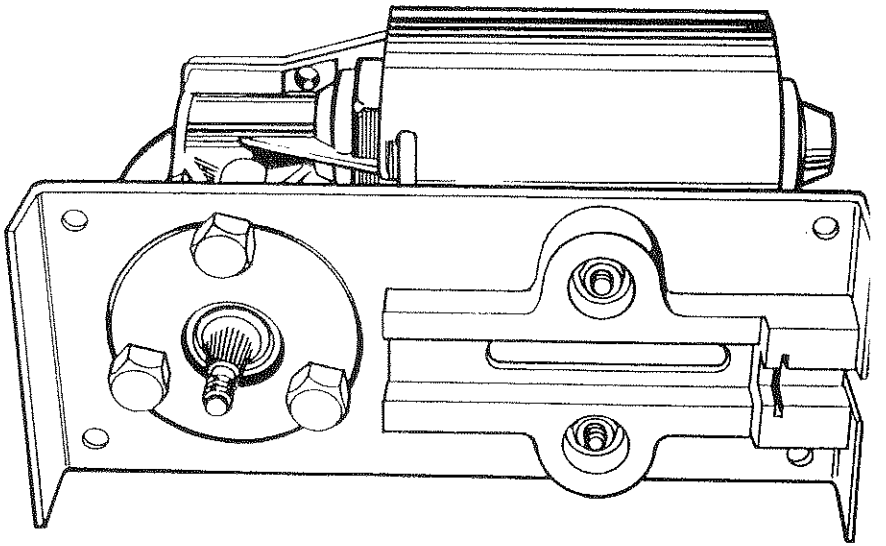
18. WIPER TRANSMISSION SHAFTS WILL ACCOMMODATE BOTH 1/2-INCH FINE-SPLINED KNURLED WIPER ARMS (WITH KNURLED PIVOT INSTALLED) AND ARMS DESIGNED FOR 1/4-INCH SHAFT WITH SET SCREW (KNURLED PIVOT NOT INSTALLED). SOME AFTERMARKET ARMS ARE CAST WITH TOO FEW SPLINES TO ADEQUATELY ENGAGE WITH THE FINE-SPLINED PIVOT AND WILL TEND TO STRIP.





SPECIALTY POWER WINDOWS

WIPER MOTOR INSTALLATION

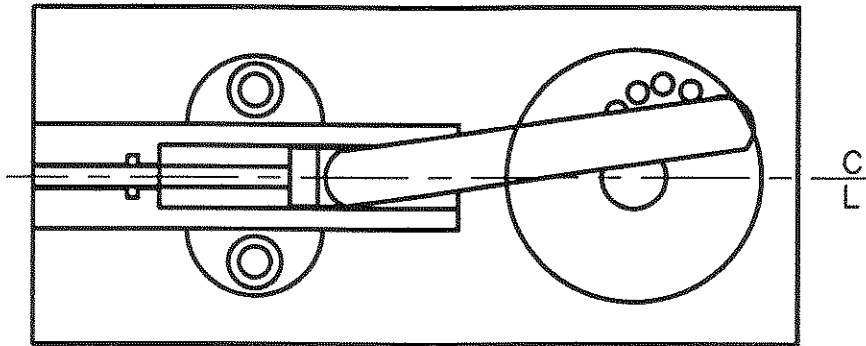


MOTOR MUST BE IN PARK POSITION BEFORE SETTING SWEEP.

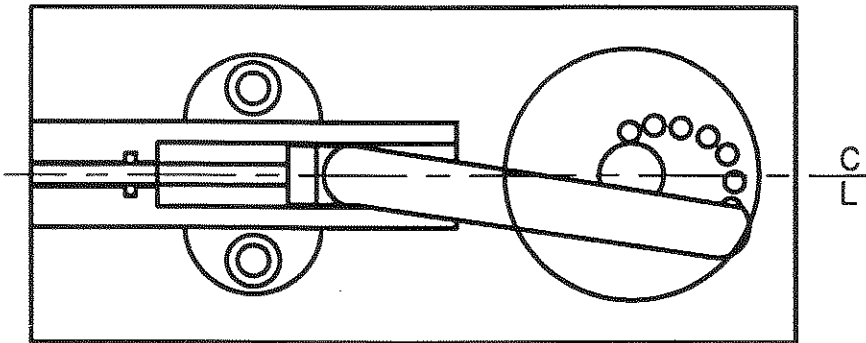
FOR THE WIPERS TO PARK AT THE END OF THE STROKE.
THE LINK MUST BE STRAIGHT IN LINE WITH SLIDER ON THE
WIPER CABLE. ALSO YOU MUST PLACE THE DRIVE WHEEL
WITH THE SWEEP HOLE YOU SELECT, STRAIGHT IN LINE WITH
THE DRIVE CABLE AND LINK.

THE COVER MUST BE RE-INSTALLED ON THE GEAR HOUSING BEFORE EACH TEST

INCORRECT



INCORRECT



CORRECT

