

## Reassembly of Housing and Transmission

### Installation of Jackshaft in Transmission Housing

1. Slide the jackshaft through the jackshaft seal in the housing.
2. With the jackshaft properly assembled, insert the pulley end of the jackshaft through the bearing and into the seal tool.
3. With the jackshaft fully inserted, pull the tool out of the seal and off the jackshaft.
4. Install the motor pulley on the shaft.

### Installation of Drive Shaft in Transmission Housing

1. Assemble the thrust washer onto the pulley end of the pinion drive gear and insert the pinion shaft into the housing bearing.
2. Assemble the drive gear cluster onto the pinion gear shaft and mesh the drive and driven gears together.

### Installation of Housing and Transmission to Motor End Bell

1. Place the large thrust washer on the motor shaft flush against the motor end bell boss.
2. Turn this motor shaft so its flat sides are parallel to the floor
3. The groove and end bell surface of the housing should be cleaned free of oil or grease. Apply a continuous bead of sealer into the groove sufficient to assure the groove will be filled, plus squeeze out onto the surfaces beside the groove.

**Note: The silastic-silicone rubber sealant can be procured through any hardware or other type supply stores. Two types that will work are: Dow Corning Silastic - Type 732 and General Electric Silicone Rubber Sealant.**

The housings now being used in production no longer have the groove depth maintained to allow the use of the 9206-105 gasket. All transmissions (new or old style) should be serviced using the new sealer.

4. Turn the inner drive shaft until its double flat is parallel to the bottom of the housing.
5. Align the housing assembly and insert the jackshaft into the jackshaft bearing in the motor end bell.
6. Rock the pulley slightly as the housing is pressed forward to align the inner drive shaft flats with the motor drive shaft flats.
7. Install the six screws holding the housing to the motor and check by hand, turning the motor pulley to make sure a bind does not exist. If the pulley will not turn, check the motor and thrust washers on the drive shaft and the component stack-up on both the jackshaft and drive shaft.
8. Replace the intermediate and high-speed shifter assemblies.

**Note: To avoid damage to the clutch spring, the shifter solenoid assemblies should not be installed until the housing is securely attached to the motor end bell.**

### Oil Level

The oil level in the transmission should be checked at time of installation. Additionally, it should be checked every three months or more often if required.

#### To check oil level:

1. Remove top panel.
2. Use the oil dipstick in the right rear corner of the cabinet to check the oil level.
3. If additional oil is needed, remove dipstick and add oil through the dipstick tube using a common oil can or funnel.

Note:

- Oil Capacity - 10 1/4 oz.
- Oil Type - 20 weight non detergent

## Section 5 Trouble Shooting Guide

Symptom	Probable Cause	Suggested Remedy
Washer Does Not Start	Unit Unplugged	Replace in electrical outlet.
	Blown Fuse	Replace Fuse.
	Circuit Breaker Tripped	Press Reset Button. Check motor for overload or short. Check machine for total amperage draw and if it exceeds the maximum rating, trace all circuits until trouble is located. If total amperage is less than maximum rating then replace circuit breaker.
	Broken Wire	Trace with test meter or Dexter Circuit Tracer part #8545-055-002.
	Defective Timer Contact	Check timer with meter using timer chart.
	Defective Drive Motor	Check Motor for: Failed Capacitor Failed Start Switch High Amperage Draw Grounded or Shorted Windings Worn Bearings If any of the above are found, repair or replace the motor.
	Coin Meter Switch	Check switch to insure that it closes with each coin insertion.
	Coin Accumulator	See Figure 4-6 for switch settings. Check for 12 volt impulse from coin meter switch. Transformer - 12 volt secondary. Replace accumulator board.
	Loose Timer Connectors	Check black and white multiple wire connectors, plugged into timer.
	Timer Drive Motor	Check timer drive motor and wire connections
Delayed Start	See starting sequence under Installation and Operation.	

Symptom	Probable Cause	Suggested Remedy
Motor Starts but Cylinder Does Not Turn	Broken or Loose Belt	Check belt tightening spring. Check belt for wear or breakage.
	Loose or Broken Pulley	Tighten or replace transmission or motor pulley.
	Transmission	Disassemble and replace worn or broken parts.
	Cylinder Binding	Check for article of clothing or other foreign material that might be between the cylinder and outer tub and remove. Check for worn or binding tub back.
Cylinder Does Not Spin	Defective Solenoid	Replace Solenoid.
	Solenoid Does Not Pull Shifter Rod	Check for cotter pin that connects solenoid and shift rod, if missing install new pin. May be caused by using the wrong transmission oil that will swell the shifter rod "O" ring making the rod stick.
	Broken or Loose Rear Motor Mounting Bracket or Stud	Tighten or replace the mounting bracket or mounting stud.
	Worn Clutch Spring	Overhaul transmission and replace worn parts.
	Loose Belt	Tighten or replace.
	No Current to Spin Solenoid	Check the timer contacts, pressure switch and wiring. (Refer to wiring diagram)
	Water Not Completely Drained	Check for plugged dump valve or drain.
Water Does Not Enter Washer	Woodruff Key in Transmission Worn or Missing	Disassemble transmission and repair.
	Clogged Inlet Screen or Hose	Remove hose and check. Always replace strainer screens.
	Open Solenoid Coil	Check for continuity and replace if necessary.
Water Does Not Enter Washer	Plugged Drain Outlet	Water not completely drained out from previous fill. Pressure switch has not reset.

Symptom	Probable Cause	Suggested Remedy
Water Does Not Enter Washer	Split Diaphragm in Water Valve	Replace diaphragm.
	Defective Pressure Switch	Check for obstruction in pressure switch hose. Check pressure switch with test meter. Replace if not working.
	Plunger Stuck in Inlet Valve	Remove inlet valve and clean or replace.
	Screen Clogged in Water Valve	Remove and clean or replace.
	Defective Selector Switch	Replace.
Water Does Not Drain	Defective Timer Contacts	Replace timer.
	Dump Valve Does Not Open	Tighten or replace return spring. Replace dump valve.
	Clogged Sump	Remove cover and clean sump.
	Clogged Hose from Sump to Dump Valve	Remove obstruction from hose.
	Clogged Dump Valve	Clean dump valve.
Inlet Water Does Not Shut Off	Failed Pressure Switch	Replace.
	Clogged Pressure Switch Hose	Clean hose.
	Dirt in Water Inlet Valve	Clean or replace valve.
	Failed Plunger	Clean inlet valve and replace plunger.
	Failed Timer Contacts	Test with meter (refer to timer chart) and replace timer if failed.
Tub Does Not Fill	Failed Inlet Valve Solenoid	Replace solenoid coil.
	Dump Valve Leaks	Clean or replace dump valve.

Symptom	Probable Cause	Suggested Remedy
Cylinder Spins All the Time	Shifter Rods Worn or Broken	Check and replace.
	Shifter Solenoid Bracket Loose	Check and tighten.
	Sleeve in Transmission Worn or Broken	Replace.
	Excess End Play in Gear Set	Worn bosses in housing. "C" rings worn or out of place.
Timer Does Not Advance	Timer Motor Defective	Remove and check for gear rotation (replace).
	Timer Gear Worn	Check and replace.
	Defective Timer	Check and replace.
	Broken Wire	Check circuit with Dexter Circuit Tracer part #8545-055-002.
Timer Does Not Rapid Advance	Wired Incorrectly	Check short and long cycle wiring instruction
	Failed Rapid Advance Motor	Check and replace.
Erratic Cycle Operation	Wired Incorrectly	Check GN-BK and WH-BK wires plugged onto separate terminals along side black timer connector.

## Section 6

### Parts Data

#### Accessories & Conversions

Part Number	Description
5130-019-002	Oil, 1/2 gallon
9472-001-001	Touch up Paint, 16 oz. Aerosol Can - white
9472-001-008	Touch up Paint, 16 oz. Aerosol Can - almond
9990-027-011	Hose, Water Supply
8641-242-000	Washer, Inlet Hose
9565-003-001	Strainer, Inlet Hose
9054-047-002	Spacer, Unit Mounting
8527-109-001	Decal-DOUBLE LOAD
8545-051-003	Drive Bit, Torx T-10
9732-055-002	Kit, Manual Start

#### Conversions

##### Cold Water Only in Soak and Rinse

Remove R-Gn wire from terminal number 3 on the temperature selector switch. Tape off the terminal on the end of the wire to prevent shorting.

##### Long Cycle - includes soak

(see Service Procedures - Short or Long Cycle Options)

##### Short Cycle - soak eliminated

(see Service Procedures - Short or Long Cycle Options)