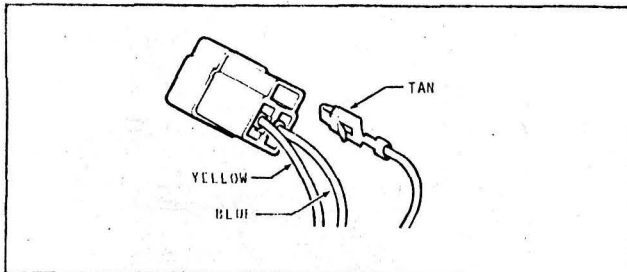




AUTO-CRUISE INSTALLATION INSTRUCTIONS FOR INSTALLATION KIT ZVW 201 709, TYPE 2.

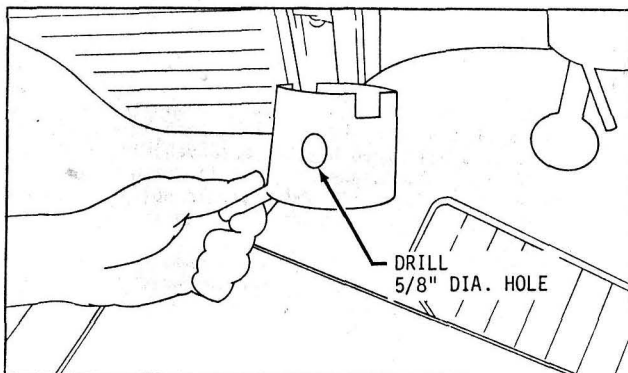
WIRING & ENGAGEMENT SWITCH INSTALLATION.

1. Disconnect negative battery cable.
2. Remove drivers side underdash panel and front splash pan.
3. Disconnect original speedometer at EGR box in passenger compartment and at front left wheel. Remove cable from car and set aside temporarily.
4. Enlarge existing speedometer cable hole in the body to one inch. Be very careful not to abrade the wiring harness at this location.
5. From passenger compartment route through the new one inch hole the following wires from the main wiring harness: Green (with shrouded bullet terminal), gray (with ring terminal) and tan, yellow and blue (all with female spade terminal).
6. Under the front of vehicle install three terminal plug on TAN, YELLOW and BLUE wires with retaining tabs on each female terminal facing center of plug. (See Illustration #1)



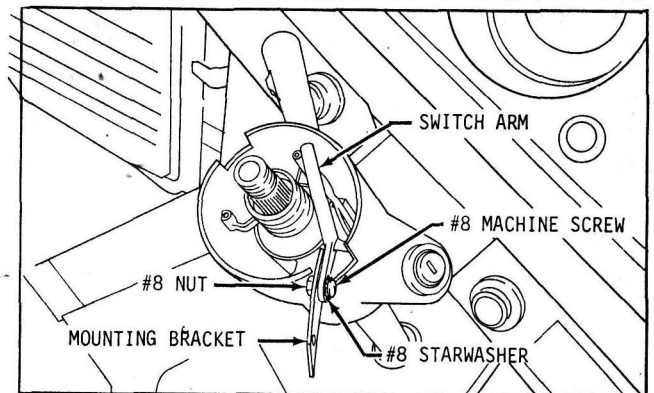
ILL. #1

7. Insert the short speedometer cable (provided) into the new one inch hole from the bottom and connect it to the EGR box. Reconnect the original speedometer cable to the left front wheel and route toward new one inch hole.
8. Install grommet into one inch hole now.
9. Remove steering wheel and turn signal assembly.
10. Remove plastic steering column cover and drill a 5/8" hole per template enclosed. See Illustration #2.



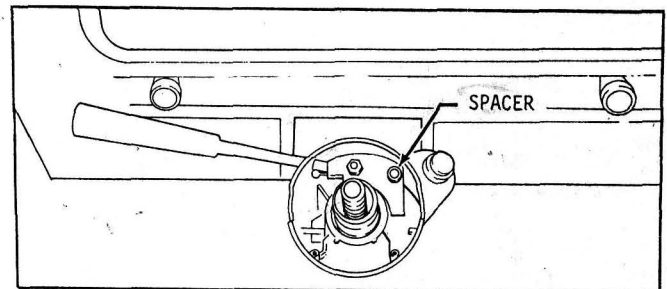
ILL. #2

11. Insert switch arm through 5/8" hole, attach mounting bracket with the #8 machine screw, starwasher, and #8 nut supplied. Tighten securely. See Illustration #3.



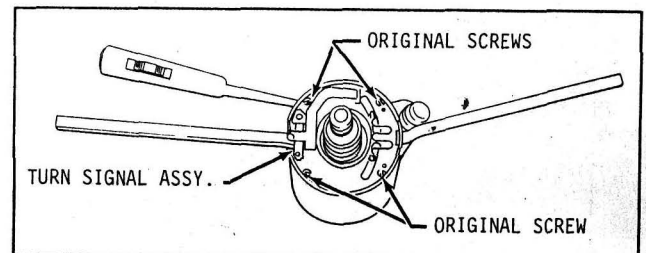
ILL. #3

12. Reinstall plastic cover and switch assembly onto steering column placing switch and bracket in the position shown in Illustration #4. Check and modify lever clearance in 5/8" hole, if necessary. Remove four-prong plug from switch and place aside for later use. Route wiring harness through steering column toward main wiring harness.



ILL. #4

13. Place spacer provided on upper right turn signal mounting post between switch bracket and turn signal assembly. Reinstall turn signal assembly (see Illustration #5) with the original 4 screws.



ILL. #5

14. Reinstall steering wheel to original equipment specifications. Locate four-prong plug from Step 12 and re-install by carefully matching wire colors with main wire harness.
15. Connect white wire with in line fuse to hot side of brake light switch wire at the fuse box. Connect blue wire to the black and red striped wire near the fuse box. This wire connects the brake light switch to the brake lights. Note, this wire may not remain the same color so be sure the wire the blue wire is connected to goes to the brake lights and when the brakes are depressed, the wire is carrying current.

Electrical splicers for all connections to exist-
ing wires. To assure proper connection of wiring
harness, use a test light to determine which wires
should be used for the connection.

17. Connect VIOLET wire to ignition control terminal on fuse box (Terminal #15).

Reconnect battery and with ignition on, check connections as follows:

WHITE wire - Remove fuse from holder on wiring harness. Touch one lead of test light to wire through firewall and other lead to ground. Bulb should light up.

BLUE wire - Touch one lead of test light to BLUE wire terminal in three-terminal plug and other lead to ground. Bulb should not light. Bulb should light along with brake lights when brake pedal is depressed.

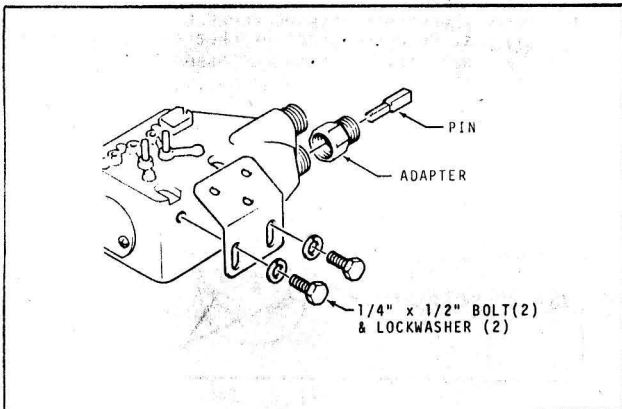
VIOLET wire - Touch one lead of test light to VIOLET wire and other to ground. Bulb should light only when ignition is turned on. It should stay lit while transmission lever is moved to all positions.

18. With a tyrap, secure these wires away from any moving parts. Make sure relay does not touch metal or wiring.

19. On vehicles without standard transmission reinstall underdash panel now. On vehicles with manual transmission refer to clutch disengagement switch instructions. (ZVW 201 728)

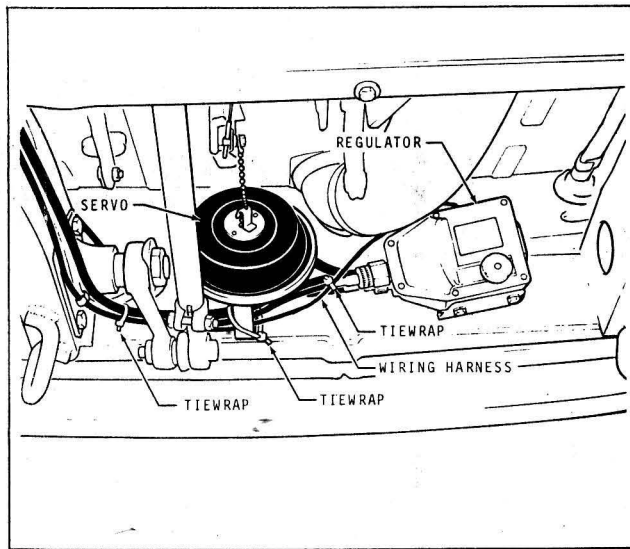
REGULATOR & SERVO INSTALLATION.

20. Assemble regulator as shown in ILL. #6 and attach loosely to bracket with (2) 1/4" x 1/2" bolts & lockwashers as shown.

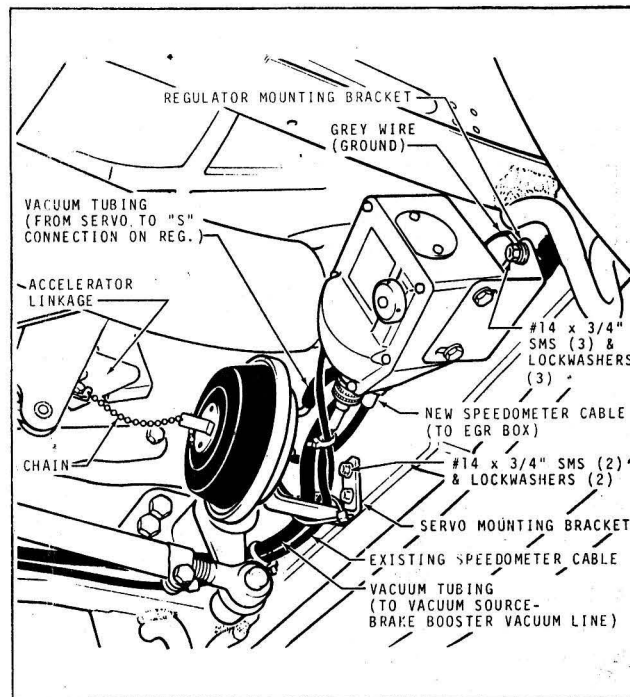


ILL. #6

21. Temporarily attach both speedometer cables to the regulator. Then position regulator as shown in ILL. #7 & #8. Cables should not be kinked and cable from wheel must be out of interference from steering controls. Using the regulator bracket as a template, mark and drill 3 holes, 5/32" diameter. Remove regulator from bracket and secure bracket and gray wire to the body with three #14 x 3/4 sheetmetal screws and lockwashers.



ILL. #7

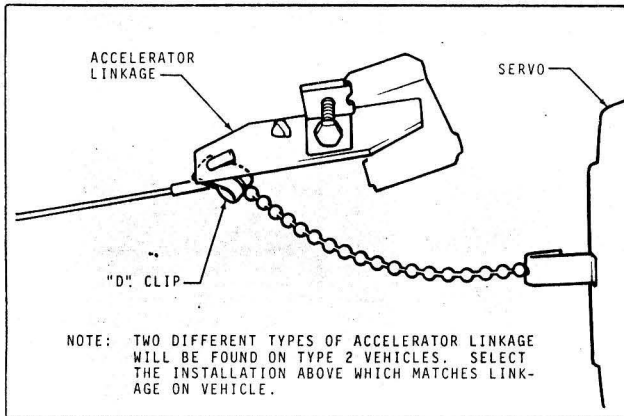
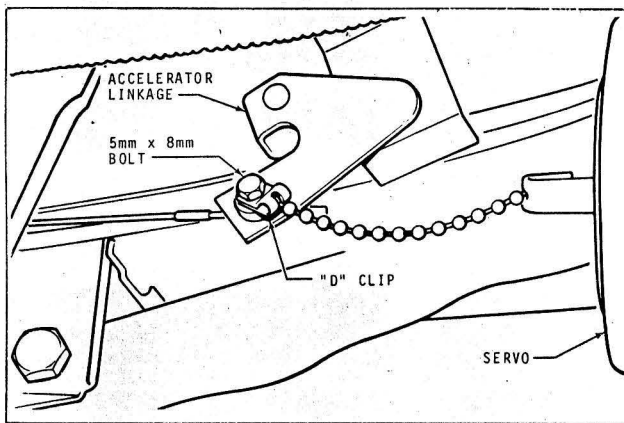


ILL. #8

22. Place servo bracket in location shown in ILL. #7 & #8 and mark two holes for drilling with a 5/32" drill bit. Install servo bracket onto vehicle with (2) #14 x 3/4 sms & lockwashers. Install servo onto bracket with a 1/4" locknut. Servo should not interfere with steering and should be in line with the accelerator linkage.

NOTE: Check clearance by turning wheels thru complete turning circle.

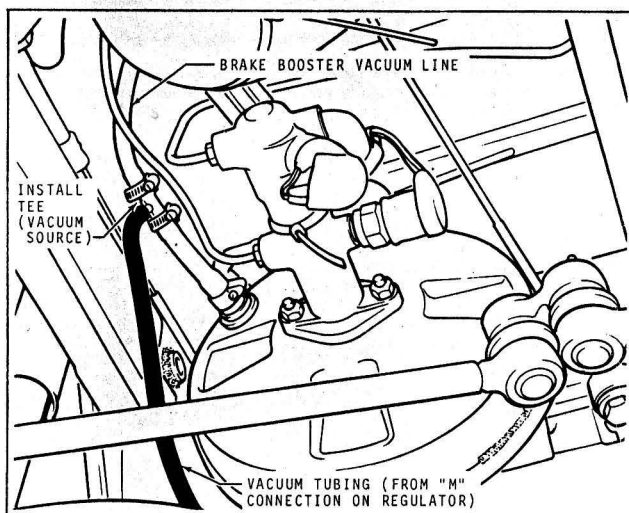
23. Install "d" clip of servo chain on to accelerator linkage as shown in ILL. #8 and #9. Attach chain to servo fingers with enough slack not to cause binding at idle with a warmed engine or binding at full throttle. On 1976 models, replace Allen head 5mm bolt with 5mm hex head bolt supplied.



ILL. #9

24. Attach vacuum tubing from servo to regulator. Attach the rest of the tubing to the "M" connection on the regulator and let hang loose. Connect three-way plug to regulator and press green bullet terminal onto regulator stud. Attach regulator to bracket. Tighten all connections and make sure that no tubing is crimped or stretched.

25. Route vacuum tubing through one of the existing holes in the cable area to the vacuum line on the brake booster. Tiewrap this line away from all areas of interference. (See ILL.#10)



ILL. #10

26. Cut brake booster vacuum line approximately 2" from booster can and insert vacuum tee. Secure vacuum tee in booster line with two worm gear clamps provided and attach vacuum line from regulator to tee connection. (See ILL. #9)
27. Recheck all connections and tie-wrap all wires and tubing out of areas of interference. Check servo action and make sure that rubber portion of servo is not rubbed at any point. After installation is complete, work accelerator linkage several times. Make sure servo chain does not have any interference.
28. Replace front cover pan and reconnect battery if not already done.

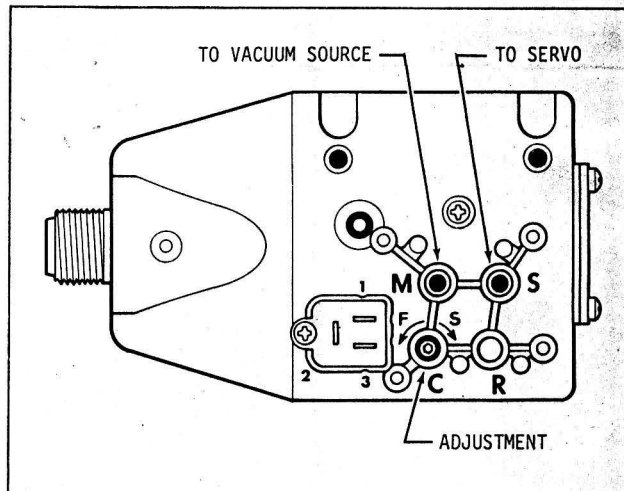
SEE OWNER'S MANUAL TO BECOME FAMILIAR WITH OPERATION OF UNIT AND FOR ADJUSTMENTS IF NECESSARY.

REGULATOR ADJUSTMENT.

If vehicle accelerates or decelerates more than 3mph upon operating set speed button, a regulator speed adjustment may be necessary.

CAUTION: This should be accomplished by EXTREMELY fine adjustments on flat level road.

29. If vehicle accelerates more than 3mph after depressing set speed button, turn speed adjusting screw "C" toward "S". (See Illustration #8)
30. If vehicle decelerates more than 3mph after depressing set speed button, turn speed adjusting screw "C" toward "F". (See Illustration #8)



ILL. #11

Due to the effects of wind, inclines and pay load:

A - The normal speed variations of +3mph is likely to be exceeded on van type vehicles. When the speed drops too low, it is recommended that you assist the speed control system with the gas pedal.

B - The time required for the vehicle to RESUME to the set speed may be longer than normal. It is recommended that acceleration be assisted with the gas pedal.

The minimum operating speed of the system is higher than on other vehicles - approximately 40 to 45 mph.



AUTO-CRUISE INSTALLATION INSTRUCTIONS FOR MANUAL TRANSMISSION KIT ZVW 201 728.

This Kit Contains:

Disengagement switch assy. Includes:

Switch, disengagement

Clip, 5/8" - 18

Bracket, switch

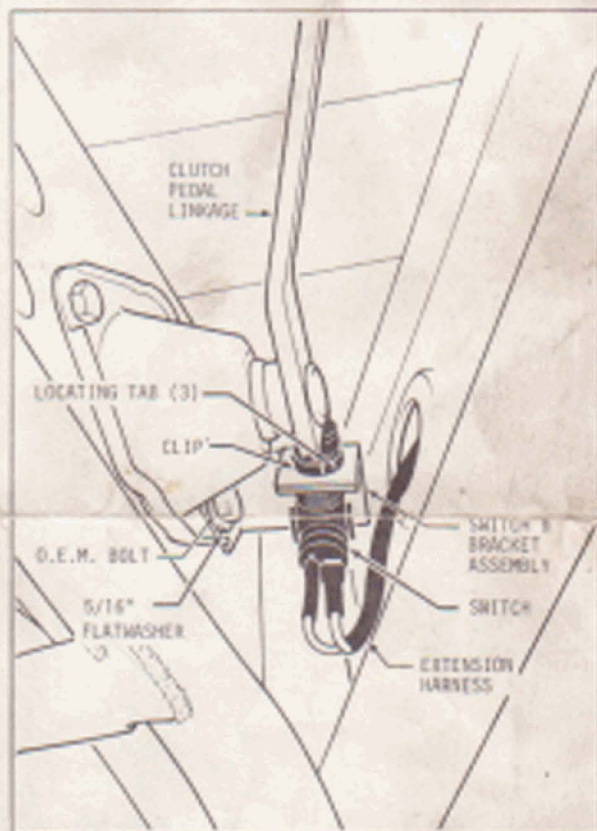
Spacer

Harness, extension

5/16" flatwasher

1. Install clutch disengagement switch assembly as shown in illustration #1 using OEM bolt & flatwasher.
2. Route extension wire harness (provided) through previously installed grommet to two prong connector in main harness. Remove brass jumper from plug and attach extension harness.
3. With ignition switch on and engagement switch on, remove three-prong plug from regulator. Using test light or volt meter, voltage should be present at the brown wire until the clutch is depressed. Minor adjustment to the clutch switch may be necessary to cause interruption of the circuit with slight movement of clutch pedal.
4. To adjust switch, relieve tension from switch by moving clutch pedal linkage away. Carefully push switch with enough force to overcome the spring tension of three locating tabs on the 5/8" - 18 clip.

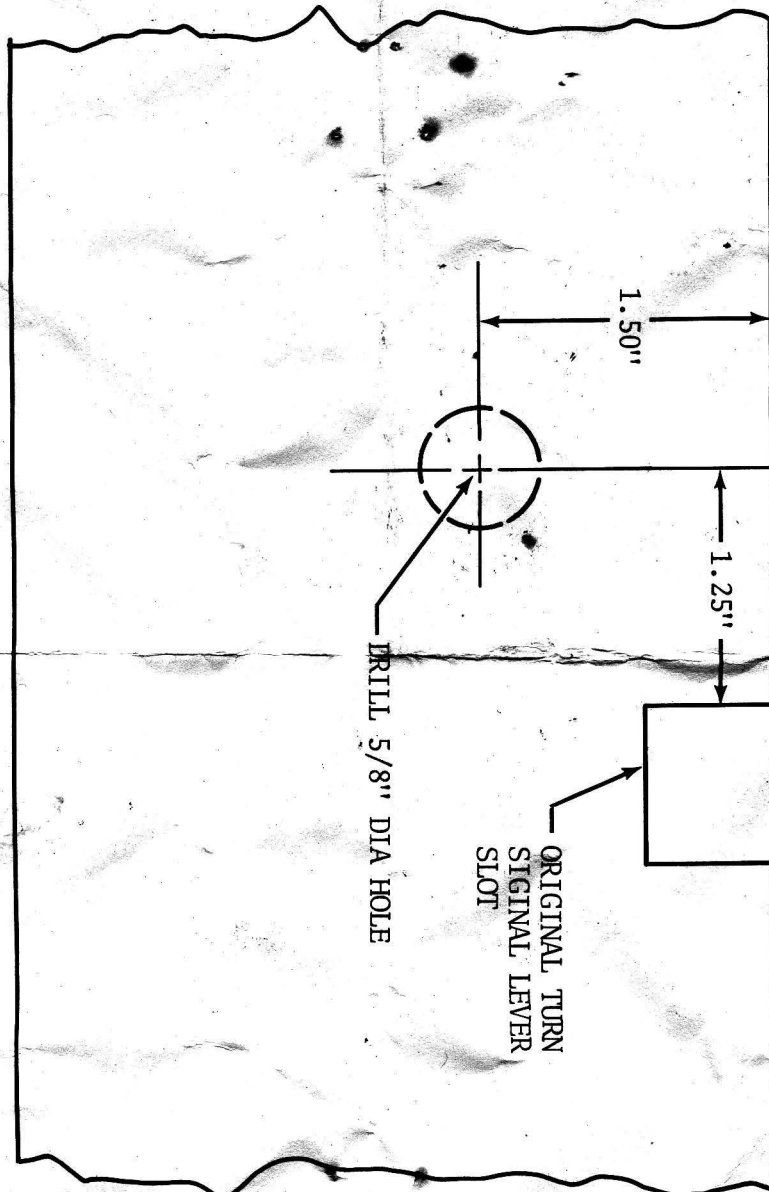
NOTE: Switch plunger should be compressed one-half of travel with clutch in normal position.



ILL. #1

* Brass jumper still in place, I taped insulating over it.

TYPE TWO ENGAGEMENT SWITCH TEMPLATE





VOLKSWAGEN PRODUCTS CORP., FT. WORTH, TEXAS 76106

MODEL

PACKING LIST FOR AUTO-CRUISE

ZVW 201 709

Installation of this Auto-Cruise unit must be made by authorized installers in accordance with installation instructions published by Volkswagen Products Corporation.

QTY.	PART NUMBER	DESCRIPTION	TYPE II
1	VPL 755-855	Operating Instructions	
1	VPL 000-279	Install Instructions	
1	ZVW 201-732	Thread Converter	
1	ZVW 201-733	Cable Stem	
1	ZVW 201-750	Servo	
1	ZVW 201-762	Wire Harness	
1	ZVW 201-768	Regulator, 06J	
1	ZVW 201-850	Switch Assy.	
1	ZVW 201-844	Switch & lever assy.	
1	ZVW 201-846	Mounting bracket	
1	ZVW 201-878	Spacer, 13/64" 10 x 1/4" long	
1	ZVW 231-750	Starwasher, #8	
1	ZVN 560-800	Nut, #8	
1	ZVN 610-810	Machine screw #8	
1	VPL 000-256	Template	
1	ZVW 201-731	Speedometer cable	
7	ZVW 201-754	7/32" Vacuum tubing	
1	ZVW 201-773	Regulator bracket	
1	ZVW 201-886	Servo bracket	
1		Fastner sack	
1	ZVW 201-752	Servo chain	
1	ZVW 225-720	Grommet	
13	ZVW 226-608	Tie, 8"	
5	ZVW 232-604	#14 x 3/4 SMS	
2	ZAW 251-027	Hose clamp, #8	
3	ZAW 411-620	Elect. connectors (3-wire)	
1	ZVW 424-615	Bolt, 5 MM	
1	ZVW 424-615	Nut, 1/4" nylock	
7	ZVN 032-502	1/4" Lock washers	
2	ZVN 972-508	1/4 x 1/2" Bolt	
1	ZVW 201-887	Vacuum tee	
1	ZVW 201-728	Kit manual transmission	
1	VPL 000-097	Installation instructions	
1		Clutch assy.	
1	ZVW 201-837	Switch	
1	ZVW 201-838	Clip, 5/8 x 18	
1	ZVW 201-839	Switch bracket	
1	ZVW 201-840	Extension harness	
1	ZVW 201-841	Spacer	

VPL 000-281

032078

This Auto-Cruise unit and components have been carefully inspected when packed. Should any discrepancy exist between the contents of this box and this list, please complete and return this form to your supplier with comments. Do not use this form for transit damage or damage caused through installation.

Date of Installation _____

Name of Supplier _____

Name of Installing Company _____

Signature _____ Date _____