

PRECISION PERFORMANCE PRODUCTS

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KWIK SHIFT II INSTALLATION AND OPERATION INSTRUCTIONS

YOUR **KWIK-SHIFT I** IS CONSTRUCTED OF THE FINEST MATERIALS AND WORKMANSHIP, HOWEVER HERE ARE SOME THINGS TO CONSIDER DURING INSTALLATION AND OPERATION.

OPERATION: LEAVING NEUTRAL TO FORWARD POSITIONS, PUSH TOP BUTTON OR LEVER AND MOVE HANDLE TO 1st. GEAR POSITION. WHEN MOVING TO REVERSE OR PARK POSITIONS, USE THE ONE HAND OPERATED REVERSE LOCKOUT FEATURE BY SQUEEZING THE LEVER AND DEPRESSING THE TOP BUTTON AT THE SAME TIME, THIS WILL ALLOW YOU TO MOVE TO THIS AREA.

ENGINE STARTING POSITIONS: WHEN THE STARTER IS WIRED THROUGH THE SHIFTER IT WILL ALLOW STARTING IN NEUTRAL OR PARK POSITIONS ONLY.

PRECISION PERFORMANCE PRODUCTS CABLES: DETERMINE THE OPTIMUM CABLE LENGTH (MEASURING THE CABLE OVERALL) THAT PROVIDES A MINIMUM NUMBER OF BENDS AND GENTLE (10" MINIMUM) RADIUS, THEN SELECT FROM THE FOLLOWING:
#603—3 FT. LG. #604— 4 FT. LG. #605—5 FT. LG. #606—6 FT. LG. #607—7 FT. LG. #608—8 FT. LG.
#609—9 FT. LG. #610--10 FT. LG. #611—11 FT. LG. #612—12 FT. LG. #613—13 FT. LG.

FOR TRANSMISSION CABLE CONNECTION COMPONENTS OR SHIFTER ACCESSORIES, CONSULT OUR WEBSITE (www.precisionperformance.com) OR CALL.

MOUNTING: SIDE MOUNTING IS POSSIBLE IF A ROLL BAR OR CHASSIS IS CONVENIENT. HOWEVER, FLOOR MOUNTING BRACKETS, **PPP #601** MAY BE MORE PRACTICAL IN OTHER APPLICATIONS, CHECK FOR CABLE CLEARANCE FROM SHIFTER BEFORE MOUNTING. AVOID SHARP BENDS IN THE CABLE THAT CAN CAUSE BINDING DURING OPERATION. DISSEMBLING THE SIDE PLATES AND TURNING THEM IN THE OPPOSITE DIRECTION CAN ACCOMPLISH CABLE EXIT TO THE FRONT OR TO THE REAR. **NOTE:** UNDER NO CIRCUMSTANCES DO NOT DISASSEMBLE THE HANDLE.

ELECTRICAL CONNECTION: FIG. 1 (A) RED WIRE AND BROWN WIRE, WITH PUSH ON RUBBER CONNECTOR. WHEN SHIFTER IS IN NEUTRAL OR PARK, INTERNAL SWITCH PROVIDES POWER TO STARTER, SEE ELECTRICAL SCHEMATIC SHEET FOR MORE DETAILS.

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OPTIONAL AIR CYLINDERS FOR HANDS OFF SHIFTING: (FIG 1) IN MOST APPLICATIONS, A MINIMUM OF 100 LBS TO MAX. OF 130 LBS. OF PRESSURE IS RECOMMEND OF CO2 GAS TO ACTIVATE THE SHIFTER. TO CONNECT THE CYLINDER, SIMPLY PUSH THE 1/4" DIA. PLASTIC HOSE FIRMLY IN THE FITTING (B) UNTIL IT STOPS. TO REMOVE THE TUBING, PUSH IN THE METAL RING ON THE FITTING, AND THEN WITHDRAW THE TUBING.

FLOOR MOUNTING BRACKETS #601 (OPTIONAL): THE MOUNTING BRACKETS (C) COME IN RIGHT AND LEFT HAND PAIRS THAT MOUNT ON THE OUTSIDE OF THE SHIFTER AND UNDER THE CABLE MOUNTING BRACKET AS SHOWN IN (FIG. 1). MAKE SURE THAT THE LOWER FLANGES ARE FLAT WITH THE STEEPER ANGLE ON THE BOTTOM. INSTALL THE 1/4 DIAMETER X 1 1/8 LONG BUTTON HEAD BOLTS IN POSITIONS (E) & (F).

CABLE INSTALLATION: MOVE LEVER BETWEEN PARK AND REVERSE POSITIONS INTO THE HALF NOTCH IN THE GATE, AS SHOWN IN (FIG. 1) NOW THE 1/4" DIAMETER HOLE (D) IN THE SIDE PLATE WILL BE ALIGNED WITH THE HOLE IN THE HANDLE. THE END OF THE CABLE WITH THE EYE CAN NOW BE INSERTED INTO THE HANDLE AND THE SHORT 1/4" PIN IS INSTALLED THROUGH THE HOLE, ATTACHING THE CABLE TO HANDLE, THEN SECURE THE CABLE HOUSING BY UNLOOSING THE TWO SIDE PLATE BOLTS (E) ADJACENT TO THE SLOTS IN THE SIDE PLATES AT THE CABLE END OF THE SHIFTER. THEN SPREAD THE SIDE PLATES SLIGHTLY AND INSTALL THE STEEL TAB (G) THAT IS CRIMPED ON THE CABLE IN THE SLOTS AS SHOWN IN (FIG1). TIGHTEN THE (2) SIDE PLATE BOLTS (E) TO SECURE THE CABLE HOUSING. NOTE: WHEN USING **B&M** CABLES INSTALL THE 1/4 INCH BOLT AND NUT (D) AS SHOWN TO PREVENT ROTATION OF THE TAB.

CABLE ADJUSTMENT: AFTER ATTACHING THE CABLE, CHECK FOR FULL TRAVEL FROM PARK TO OPPOSITE POSITION OF GATE PATTERN ON SHIFTER. AS A FINAL ADJUSTMENT VERIFY THAT WHILE IN SECOND GEAR POSITION, THE SHIFTER ROLLER IS IN THE CENTER OF THE GATE CHANNEL. THIS IS ACCOMPLISHED WITH THE CABLE TRUNNION AT THE TRANSMISSION LEVER.

FIG 1

