



STATE OF WASHINGTON
GAMBLING COMMISSION

"Protect the Public by Ensuring that Gambling is Legal and Honest"

April 14, 2010

Bo Zarach
Shuffle Master, Inc.
1106 Palms Airport Drive
Las Vegas, NV 89119

RE: One2Six Shuffler Upgrade from 1.2.0.0 to version 1.3.4.0

Dear Ms. Zarach,

Thank you for requesting approval of the upgrade to your One2Six Shuffler v1.3.4.0. We have completed our review.

The One2Six Shuffler v1.3.4.0 is approved for use in Washington State with the following requirement:

- The One2Six is only approved for the multi-deck games. Although the One2Six has the capability to be operated as a single-deck continuous shuffler, the single-deck option was not submitted for review and was not tested by our Electronic Gambling Lab.
- If power to the One2Six is disrupted while cards are being shuffled, all cards must be removed from the device and reshuffled.

The electronic signatures for the One2Six Shuffler v1.3.4.0 are as follows:

Software component	Version	Function	Type	MT3000 Kobetron
EPROM #1	1.3.4.0	Software	29C040	7856
EPROM #2	1.3.4.0	Software	29C040	CF60
EPROM #3	1.3.4.0	Software	29C040	9H42
EPROM #4	1.3.4.0	Software	29C040	3271

Any modifications made to the One2Six Shuffler, software, or associated equipment must be submitted to us for additional testing and review. We reserve the right to investigate and reevaluate the One2Six Shuffler and software if we determine that such a review is required to ensure compliance.



Thank you for your cooperation during this process. We appreciate your desire to comply with our regulations. If you have any questions regarding this matter, please contact me at (360) 486-3546.

Sincerely,

A handwritten signature in black ink, appearing to read "Tina A". The signature is fluid and cursive, with the first letter being a large capital 'T'.

Tina Griffin
Assistant Director
Licensing Operations Division

cc: Mark Harris, Assistant Director Field Operations Division
Julie Lies, Assistant Director Tribal Gaming Division



STATE OF WASHINGTON

GAMBLING COMMISSION

"Protect the Public by Ensuring that Gambling is Legal and Honest"

April 2, 2010

TO: GET

FROM: Melissa Valencia, Testing Engineer
Electronic Gambling Lab

SUBJECT: GET Submission #1840 - EGL Submission #4571
ShuffleMaster One2Six Shuffler v1.3.4.0

OVERVIEW OF HOW DEVICE OPERATES

The One2Six is a unique shuffling device that has the ability to handle single-deck and multi-deck games. The games displayed in the menu were Pontoon - 4 to 6 decks, Spanish 21 - 4 to 6 decks and Black Jack - 4 to 6 decks. The only game tested on the menu was Black Jack - 4 decks, due to time constraints and deck availability. Although the One2Six has the capability to operate as a single-deck continuous shuffler, ShuffleMaster did not submit this device for the single-deck option, nor was the single-deck option tested. A different output device (shoe) needs to be installed for the shuffler to be put into single deck mode. The shuffler is primarily intended for use with stud poker-type games but may be used with other games as well. The device also has limited networking capability which allows technicians to access the logbook and sensory settings from a laptop. There appears to be no direct access or security concerns with this functionality.

The One2Six consists of the following *external* components: a card loading tray, a discard tray for outputting shuffled cards, one button on top of the device that will light up red or green depending on the status of the shuffler and a touch screen display. The main *internal* component includes a rotating wheel where cards are sorted into hands.

Before the initial card fill, the intended game must be selected from the menu. Once the appropriate game has been chosen, the display will read "insert cards" and the selected game. The dealer must then load four, five or six decks of cards as one pack according to the selected game. The One2Six's RNG randomly assigns each card to a slot in the internal rotating wheel and immediately begins feeding the cards one at a time from the bottom of the deck into the pre-assigned slots in the rotating wheel. As soon as the

required number of cards has been pulled in, the cards are loaded to the front shoe and the One2Six is ready for the game.

CHANGES IN V1.3.4.0

Most of the changes in v1.3.4.0 consisted of efficiency improvements and bug fixes. The two specific changes that were tested are listed below.

- **TEACH CR** – a feature in the SETUP menu. In previous versions, this feature was listed, but was completely inactive. In v1.3.4.0, when TEACH CR is selected, the display asks the dealer to load 1 sorted deck. When the deck is loaded, the cards are fed into the shuffler and then dealt out in the exact order that they were loaded. Although the TEACH CR feature was activated in v.1.3.4.0, it still requires the card recognition portion of the One2Six Plus shuffler.
- **HAND COUNTER added** – a feature in the COUNTER menu. This feature counts the players hands and is only available if the shuffler is used in the Single Deck Mode.

MENU FUNCTIONS

Press the “MENU” button on the rear display. Tapping the up/down arrows will allow you to scroll through the menu items.

- **COUNTER** – This displays the daily card count and gives you the option to clear the card counter.
- **GAME** – This allows you to change the game and the deck count between 4, 5, or 6 decks.
- **SETUP** – There are five submenus in this menu option
 - **DATE/TIME** – allows you to set the date and time.
 - **LANGUAGE** – allows you to choose between 5 different languages
 - **DISPL. CONTRAST** – allows you to change the contrast of the display screen for better viewing.
 - **USER GAMES** – allows up to 2 User Games to be configured and named. This access to this feature/function is only available for the single-deck functionality. It was locked during testing and should remain locked.
 - **TEACH CR** – this option is for the One2Six Plus and requires specific Card Recognition software in order to function.
- **SERVICE** – There are four submenus in this menu option
 - **MOTOR TEST** – allows you to choose and stop the respective motor for weekly cleaning.
 - **SENSOR TEST** – allows you to operate sensors manually and check on the display if they work properly.

- **CALIB. SENSOR** – allows you to auto calibrate when problems related to the sensor are reported.
- **CHECK OUTPUSHER** – allows you to re-adjust the outpusher fingers if they become misaligned.
- **INVENTORY** – allows you to perform an inventory of all playing cards that are actually in use on a table.
- **WITHOUT COVER** – allows you the opportunity to operate the shuffler without the cover on. This function should only be used to carry out service and maintenance.
- **SYSTEM INFO** – allows the casino to verify the version that is installed in the shuffler and the serial number.

CONCERNS OR ISSUES THAT NEED TO BE ADDRESSED

During testing of the One2Six v.1.3.4.0, the Lab found one anomaly. Power was cut while cards were being inserted into the shuffler. Once the power was restored, the COUNTER display did not increment to show any of the cards that were just inserted.

The lab recommends that if power is cut to the device while cards are being shuffled, that all cards be removed from the device and reshuffled.

SIGNATURES

Software Component	Version	Function	Type	Part #/ID/Location
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CONCLUSIONS

The One2Six shuffler appears to operate as depicted by the manufacturer and our testing has shown that there did not appear to be a pattern in the order that the cards were dispensed. It is recommended that the single deck version be prohibited from use as it was not submitted or tested by EGL.

NUMBER OF HOURS SPENT ON REVIEW

A total of 15 hours was spent on this review.